

SHARP**PROGRAMMING MANUAL**

CODE: 00ZERA670SPME

**ELECTRONIC
CASH REGISTER****ER-A650 S**
MODEL ER-A670 S

(For "V" version)

SRV KEY : LKGIM7113RCZZ

PRINTER : M-T245

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* The added and changed items are marked with Ⓢ in the manual.

CHAPTER 1. SERVICE (SRV) MODE

The SRV key is used for operating in the SRV mode.

1. SRV. reset (Program Loop Reset)

Used to return the machine back to its operational state after a lock-up has occurred.

Procedure

- Method 1
 - 1) Turn off the AC switch.
 - 2) Set the mode switch to (SRV) position.
 - 3) Turn on the AC switch.
 - 4) Turn to (SRV) position from (SRV) position.
 - Method 2
 - 1) Set the mode switch to PGM2 position.
 - 2) Turn off the AC switch.
 - 3) While holding down JOURNAL FEED key and RECEIPT FEED key, turn on the AC switch.
- Note: When disassembling and reassembling always power up using method 1 only. Method 2 will not reset the CKDC4.
- Note: SRV programming job#926-B must be set to "4" to allow PGM program loop reset.

PRG. RESET ***

2. Master reset (All memory clear)

There are two possible methods to perform a master reset.

- MRS-1

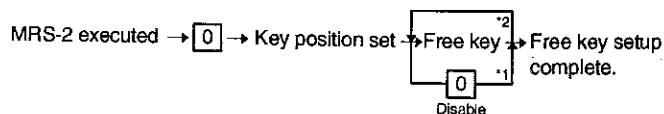
Used to clear all memory contents and return machine back to its initial settings. return keyboard back to default. for default keyboard layout.
- MRS-2

Used to clear all memory and keyboard contents. This reset returns all programming back to defaults. The keyboard must be entered by hand. This reset is used if an application needs different keyboard layout other than that supplied by a normal MRS-1.

Procedure

- 1) Turn off the AC switch.
- 2) Set the MODE switch to the (SRV) position.
- 3) Turn on the AC switch.
- 4) While holding down JOURNAL FEED key and RECEIPT FEED key, turn to (SRV) position from (SRV) position.
- 5) Key position assignment:
 - * After the execution of MRS-2, only the RECEIPT FEED and JOURNAL FEED keys can remain effective on key assignment. Any key can be assigned on any key position on the main keyboard.

[key setup procedure]



MASTER PRESET ***

NOTES:

- *1: When the 0 key is pressed, the key of the key number on display is disabled.
- *2: Push the key on the position to be assigned. With this, the key of the key number on display is assigned to that key position.
- *3: When relocating the keyboard, the PGM 1/2 use standard key layout.

Key number	Key name	Key number	Key name
1	Numeric key "0"	10	Numeric key "9"
2	Numeric key "1"	11	Numeric key "00"
3	Numeric key "2"	12	Numeric key "000"
4	Numeric key "3"	13	Decimal point key
5	Numeric key "4"	14	CL key
6	Numeric key "5"	15	⊗ key
7	Numeric key "6"	16	ST key
8	Numeric key "7"	17	TL key
9	Numeric key "8"		

3. Reading of the SRV mode program

List of program reports

JOB#	Report name
900	SRV-mode program full item report (not incl. keyboard layout)
950	Keyboard layout report (on keys other than dept. keys and direct PLU keys)
951	Keyboard layout report (on dept. keys and direct PLU keys)
970	SRV file programming report

All parameters contained for the SRV mode as listed

900 → $\boxed{\otimes}$ → $\boxed{\text{TL}}$

DATE (DD/MM/YY)/TIME
MACHINE NO./CC-NO.

JOB CODE

CONTENTS OF THE SRV-MODE PROGRAMMING
The contents of the programming are printed only on the journal individual formats shown at left. (No header is printed.)

944#	0000	PGM2 MODE SECRET CODE
945#	0000	ASSIGNMENT OF RS232C CHANNEL
946#	0000	ASSIGNMENT OF RS232C CHANNEL
948#	000 000	TRAINING CLERK NO.
949#	TRAINING	TRAINING MODE'S TITLE

The Key layout report is printed in SRV mode

$$950 \rightarrow \boxed{\otimes} \rightarrow \boxed{TL}$$

DATE (DD/MM/YY)/TIME
MACHINE NO./CC-NO.

JOB CODE

KEY NO./KEY LABEL
/LOCATION NO.

$$951 \rightarrow \boxed{\otimes} \rightarrow \boxed{TL}$$

DATE (DD/MM/YY)/TIME
MACHINE NO./CC-NO.

JOB CODE

001	0 0 1	024	KEY NO./KEY TEXT
002	0 0 2	034	/LOCATION NO.
003	0 0 3	044	
	:		
	:		
158	1 5 8	---	
159	1 5 9	---	
160	1 6 0	---	

⑤ [JOB#970]

Files on the memory are listed.

Key operation

970 → ☐ → ☐ TL

01/01/00	3:34	0001
000000#0004	CLERK001	
#970		
001	00020	/00020
002	00020	/00020
003	00020	/00020
005	00020	/00020
006	00020	/00020
011	00240	/00020
014	00240	/00020
015	00240	/00020
018	00240	/00020
019	00240	/00020
024	00030	/00000
025	00010	/00000
026	00099	/00099
027	00099	/00099
028	00099	/00099
033	00006	/00006
034	00006	/00006
035	00006	/00006
039	00076	006/00076
040	00076	006/00076
041	00076	006/00076
046	00076	/00076
047	00076	/00076
051	00076	/00076
052	00076	/00076
056	00049	/00049
057	00049	/00049
061	00032	/00000
062	00032	/00000
069	00080	/00080
072	00080	/00080
073	00080	/00080
075	00050-01910	
		/00000
077	00020	/00020
080	00240	/00020
081	00240	/00020
086	00240	/00020
087	00240	/00020
1C6000		
1DFFE0		
1FFFFF		

JOB CODE

FILE TABLE NO./NO. OF RECORDS
/NO. OF BLOCKS
/NO. OF USED RECORDS

FILE TABLE NO./NO. OF INDEX
RECORDS-NO. OF DATA RECORDS/NO. OF USED
RECORDS (GLU)

FILE MEMORY START ADDRESS
EMPTY MEMORY START ADDRESS
MEMORY END ADDRESS

[JOB#990]

Reading the Contents of the SRV-Mode Programming for SSP

Key operation

990 → ☐ → ☐ TL

11/01/94	12:34PM	
123456#0123		
#990		
SSP ERA670	-001	
001	001	
002	001	
003	001	
:		
:		
CHECK SUM ERROR		

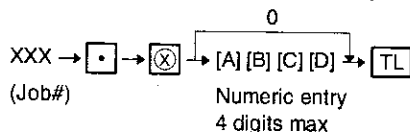
DATE (DD/MM/YY)/TIME
MACHINE NO./CC-NO.

JOB CODE

SSP NO.

4. Service mode programming

The following are the key operation required for programming.



Details of [A][B][C][D] will be discussed at each item description.
★ mark is MRS setting.

[JOB #901]:MRS=0102

#901-A: Not used (Fixed at "0")

#901-B: Tax system

1. TAX system	901-B
Auto TAX 1~6	0
Auto VAT 1~6	1
Manual VAT 1~6	2
Manual VAT 1	3
Manual TAX 1~6	4
Auto VAT 1~3 and Auto TAX 4~6	5

#901-C: 1. Rounding system

1. Rounding system	901-C
Normal	0
SWEDEN	1
DENMARK	4

#901-D: 1. TAB setting

1. TAB setting	901-D
0.0	1
0.00	2
0.000	3

[JOB#902] MRS=0000

#902-A: 1. Choice of inline option

2. INLINE (SRN in-line)	902-A
No	0
Yes	1

#902-B: 1. Choice of kitchen printer

1. Kitchen printer (ER-01RP/03RP)	902-B
No	0
Yes	1

⑤ #902-C: (For Germany): 1. Type of printer

1. Type of printer	902-C
None	0
Serial printer	1
Slip printer (ER-31SP)	2

#902-C (For other country): 1. Choice of slip printer

1. Slip printer (ER-31SP)	902-C
No	0
Yes	2

#902-D: 1. EFT terminal (For Germany)
2. Clerk key

1. EFT terminal	2. Clerk key	902-D
No	4 bit key	0
	8 bit key	2
Yes	4 bit key	4
	8 bit key	6

[JOB#903] MRS=4000

#903-A: 1. SIO loader dumper baud rate

1. Baud rate (bps)	903-A
300	0
1200	1
2400	2
4800	3
9600	4
19200	5

#903-B, C, D: Not used (Fixed at "000")

[JOB#904] MRS=0000

⑤ #904-A (For Germany): 1. Printing of date
2. Printing time on Bill
3. Printing of bill No.

1. Printing of date	2. Printing time on Bill	3. Printing of bill No.	904-A
Yes	Yes	Yes	0
		No	1
	No	Yes	2
No	Yes	No	3
		Yes	4
	No	No	5
		Yes	6
		No	7

#904-A (For other country): 1. Printing of date

1. Printing of date	904-A
Yes	0
No	4

#904-B: 1. Printing of consecutive No.

1. Printing of consecutive No.	904-B
Yes	0
No	4

#904-C: 1. Service charge is contained in ST

1. Service charge is contained in ST	904-C
No	0
Yes	4

#904-D: 1. Inclusion of tax in base amount of service charge

1. Inclusion of tax in base amount of service charge	904-D
No	0
Yes	4

[JOB#905] MRS=0100

#905-A: Not used (Fixed at "0")

#905-B: 1. Tax printing when taxable subtotal is zero.
2. Tax printing when tax is zero.

1. Taxable subtotal is zero	2. Tax is zero	905-B
Skip	Print	0
	Skip	1
Print	Print	4
	Skip	5

- #905-C: 1. Printing of rounding amount in receipt. (For Australia)
2. Printing format for split pricing entry.

1. Printing of rounding amount in receipt	2. Printing format for split pricing entry	905-C
No	Normal format	0
	Australia format	2
Yes	Normal format	4
	Australia format	6

#905-D: Not used (Fixed at "0")

[JOB#906] MRS=0001

- #906-A: 1. Print Dept. and PLU number on receipt.
2. Entry which makes the PLU counter negative.

1. Print Dept. and PLU number	2. PLU stock counter negative	906-A
NO	Allowed unconditionally	0
	Operation allowed despite error message	1
	Inhibited	2
Yes	Allowed unconditionally	4
	Operation allowed despite error message	5
	Inhibited	6

- #906-B: 1. Hash departments
2. Non-turnover

1. Hash departments	2. Non-turnover	906-B
Disable	Disable	0
	Enable	1
Enable	Disable	2
	Enable	3

- #906-C: 1. Split pricing counting
2. Multiplication entry

1. Split pricing counting	2. Multiplication entry	906-C
Quantity	Multiplication	0
	Split pricing	2
Package	Multiplication	4
	Split pricing	6

- #906-D: 1. Presetting of consecutive No.
2. Fractional quantity

1. Consecutive No.	2. Fractional quantity	909-D
Yes	No	0
	Yes (3-digit decimal place)	1
No	No	2
	Yes (3-digit decimal place)	3

[JOB#907] MRS=0014

- #907-A: 1. Entry of SCM (+)/(-) after registration in REG/MGR mode
2. Starting cash memory input compulsory

1. Entry of SCM (+)/(-) after registration in REG/MGR mode	2. Starting cash memory input compulsory	907-A
Disable	Noncompulsory	0
	Compulsory for an individual clerk	1
	Compulsory for all clerks	2
Enable	Noncompulsory	4
	Compulsory for an individual clerk	5
	Compulsory for all clerks	6

#907-B: Not used (Fixed at "0")

- #907-C: 1. In case of all clerk CCD, X report before CCD entry
2. Locking of REG mode entry after individual clerk resetting
3. Minus department and PLU

1. In case of all clerk CCD, X report before CCD entry	2. Locking of REG mode entry after individual clerk resetting	3. Minus department and PLU	907-C
Disable	No	Disable	0
	No	Enable	1
	Yes	Disable	2
	Yes	Enable	3
Enable	No	Disable	4
	No	Enable	5
	Yes	Disable	6
	Yes	Enable	7

- #907-D: 1. Z-counter print for PLU, hourly, Clerk, Daily net
2. CCD compulsory

1. Z-counter print	2. CCD compulsory	907-D
Yes	Non compulsory	0
	For individual clerk	1
	For all clerk	2
No	Non compulsory	4
	For individual clerk	5
	For all clerk	6

[JOB#908] MRS=0000

- #908-A: GT print on Z report

GT1 (NET)	GT2 (+)	GT3 (-)	908-A
Print	Print	Print	0
		Skip	1
	Skip	Print	2
Skip		Skip	3
		Print	4
	Print	Skip	5
		Print	6
		Skip	7

- #908-B: GT print on X report

GT1 (NET)	GT2 (+)	GT3 (-)	908-B
Skip	Skip	Skip	0
		Print	1
	Print	Skip	2
		Print	3
Print	Skip	Skip	4
		Print	5
	Print	Skip	6
		Print	7

- #908-C: 1. Add void-mode transaction data to hourly total report
2. X1/Z1 report in X2/Z2 mode
3. Resetting of consecutive number in Z1 resetting

1. Add void-mode transaction to hourly total report	2. X1/Z1 report in X2/Z2 mode	3. Resetting of consecutive No.in Z1 resetting	908-C
No	Enable	No	0
		Yes	1
	Disable	No	2
		Yes	3
Yes	Enable	No	4
		Yes	5
	Disable	No	6
		Yes	7

- #908-D: 1. Printing X/Z report Journal only/Receipt & Journal (Except the individual clerk report)
2. Z1 resetting, resets GT Enable/Disable

1. Printing X/Z report	2. GT resetting at Z1	908-D
Receipt & Journal	Disable	0
	Enable	1
Journal	Disable	4
	Enable	5

[JOB#909] MRS=0001

- #909-A: 1. Printing of balance GT on the Z report
2. Printing of training GT on the X report
3. Printing of training GT on the Z report

1. Printing of balance GT on the Z report	2. Printing of training GT on the X report	3. Printing of training GT on the Z report	909-A
Print	Skip	Print	0
		Skip	1
	Print	Print	2
		Skip	3
Skip	Skip	Print	4
		Skip	5
	Print	Print	6
		Skip	7

- #909-B: 1. Printing of data on PLU resetting report
2. All Z1 resetting in X1/Z1 mode

1. Printing of data on PLU resetting report	2. All Z1 resetting in X1/Z1 mode	909-B
Yes	Enable	0
	Disable	2
No	Enable	4
	Disable	6

- #909-C: 1. Printing of data in void-mode totalizer and manager void totalizer on Z2 report
2. Printing of data in void-mode totalizer and manager void totalizer on Z1 report

1. Void-mode totalizer on Z2 printing	2. Void-mode totalizer on Z1 printing	909-C
Print	Print	0
	Skip	2
Skip	Print	4
	Skip	6

- #909-D: 1. Entry of clerk# compulsory
(Clerk system: Push key or clerk code entry)
2. When real clerk key is taken out

1. Entry of clerk# compulsory	2. When real clerk key is taken out	909-D
Redesignation	Transaction in progress	0
	Transaction finalized	1
Every transaction	Transaction in progress	2
	Transaction finalized	3

[JOB#910] MRS=0001

- #910-A: 1. Overlaped clerk function

1. Overlaped clerk function	910-A
No	0
Yes	1

- #910-B,C: Not used (Fixed at "00")

- #910-D: 1. Clerk system

1. Clerk system	910-D
1 hole	1
Push key	3
Clerk code entry	4

[JOB#911] MRS=0000

- #911-A: 1. Fraction treatment

1. Fraction treatment	911-A
Round off	0
Round up	1
Round down	2

- #911-B: Not used (Fixed at "0")

- ⑤ #911-C: 1. Types of receipts

1. Types of receipts	911-C
Addition	0
Single/Double	1
Single/Double+Addition	3
Addition+Single item	4
Addition receipt with TL not issued	6

- #911-D: 1. Receipt format

1. Receipt headerformat	911-D
Format 1	0
Format 2	2
Format 3	4

- ① Format 1

• Normal 1 01/05/93 12:34PM 0001
123456#1234 BROWN

• GLU 01/05/93 12:34PM
123456#1234#9999
0001 BROWN

- ② Format 2

• Normal 01/05/93 12:34PM 0001
123456#1234 BROWN

• GLU 01/05/93 12:34PM
123456#1234#9999
0001 BROWN

- ② Format 3

• Normal 01/05/93 12:34PM 0001
123456#1234 BROWN

• GLU 01/05/93 12:34PM
123456#1234#9999

[JOB#912] MRS=1141

#912-A: 1. Date print format

Date format	912-A
Month/Day/Year	0
Day/Month/Year	1
Year/Month/Day	2

#912-B: 1. Time system

1. Time system	912-B
12H	0
24H	1

#912-C: 1. After transaction receipt format
2. Copy receipt
3. Footer print control

1. After transaction receipt	2. Copy receipt	3. Footer print control	912-C
Total only	No	All receipt	0
		On selected function keys at the time of finalization	1
	Yes	All receipt	2
		On selected function keys at the time of finalization	3
Detail	No	All receipt	4
		On selected function keys at the time of finalization	5
	Yes	All receipt	6
		On selected function keys at the time of finalization	7

#912-D: 1. Logo/stamp message control

1. Logo/stamp message control	912-D
3-line header instead of logo/stamp	0
Logo/stamp only	1
Logo/stamp and 3-line footer	2
6-line header instead of logo/stamp	3

(Logo/stamp message format)

Type :	0	1	2	3
Header	_____	LOGO /Stamp	LOGO /Stamp	_____
Footer	_____		_____	_____

* ER-A670 S: Logo
ER-A650 S: Stamp

[JOB#913] MRS = 0042

#913-A: 1. Printing of VAT3, 4, 5, 6 on receipt
2. VP format on Receipt/Journal
3. Content of TOTAL VP amount

1. VAT3, 4, 5, 6	2. VP format	3. VP amount	913-A
Print	Date & amount	Total amount	0
		Tendered amount	1
	Machine# & amount	Total amount	2
Skip	Date & amount	Tendered amount	3
		Total amount	4
	Machine# & amount	Tendered amount	5
		Total amount	6
		Tendered amount	7

#913-B: 1. Printing of [ST]
2. Escape the compulsion of VP or slip

NOTE: Must turn to MGR mode and depress [•], [PRINT] keys to escape validation

1. SBTL Print	3. Escape the compulsion of VP or slip	913-B
No	Disable	0
	Enable	1
Yes	Disable	4
	Enable	5

#913-C: 1. Printing of subtotal with receipt shift
2. Buzzer off 2sec. after lock error.
3. Buffered keyboard

1. Subtotal with receipt shift	1. Error beep	2. Buffered keyboard	913-C
Print	2-sec. off	Yes	0
		No	1
	Constant	Yes	2
		No	3
Skip	2-sec. off	Yes	4
		No	5
	Constant	Yes	6
		No	7

#913-D: 1. Drawer closing operation compulsory
2. Error mode
3. Key catch sound

1. Drawer closed compulsory	2. Error mode	3. Key catch sound	913-D
Non-compulsory	All lock error	Enable	0
		Disable	1
	Miss operation (One shot error)	Enable	2
		Disable	3
Compulsory	All lock error	Enable	4
		Disable	5
	Miss operation (One shot error)	Enable	6
		Disable	7

[JOB#914] MRS = 0100

#914-A: 1. Receipt issuing at no-sale
2. [NS] key separation from [TL] key for no sale function

1. Receipt issuing at no-sale	2. [NS] key separation	914-A
Enable	Yes	0
	No	2
Disable	Yes	4
	No	6

#914-B: 1. No-sale after NON ADD code entry

1. No-sale after # entry	914-B
Disable	0
Enable	1

★

#914-C 1. Void mode

1. Void mode	914-C
Enable	0
Disable	2

★

⑤ #914-D: 1. CHECK CASHING/Cash of transfer

1. CHECK CASHING	914-D
Cash of transfer	0
Check cashing	2

★

[JOB#915] MRS = 1022#915-A: 1. Printing of total amount at addition+single item receipt
2. Amount symbol

1. Total amount at addition+single item receipt	2. Amount symbol	915-A
Print	" \$ "	0
	" * "	1
	" "	2
Skip	" \$ "	3
	" * "	4
	" "	5

★

#915-B: 1. Printing of refund on the Single/Double receipt
2. PO system

1. Refund on the S/Double receipt	2. PO system	915-B
Skip	Mixed entry	0
	Cash only entry	1
Print	Mixed entry	4
	Cash only entry	5

★

#915-C: 1. ST%, ST(-) as many times needed/operation only once
2. RA system

1. ST%, ST (-) operation	2. RA system	915-C
Unlimited	Mixed entry	0
	Cash only entry	1
Once only	Mixed entry	2
	Cash only entry	3

★

#915-D: 1. Single/Double receipts are issued by the number of a multiplier
2. Incrementing the consecutive number for each item in Single/Double+Addition receipt
3. Printing on Single/Double receipt for multiplication entry

1. S/D receipts are issued by the number of a multiplier	2. Incrementing the consecutive number for each item in S/D+ADD receipt	3. S/D receipt for multiplication entry	915-D
No	No	One line	0
		Normal	1
	Yes	One line	2
		Normal	3
Yes	No	One line	4
		Normal	5
	Yes	One line	6
		Normal	7

★

[JOB#916] MRS = 1000#916-A: 1. Printing of link PLU on Single/Double receipt
2. Print format when text and amount overlaps each other REG mode

1. Link PLU on S/D receipt	1. Print format	916-A
Each PLU	Truncate text	0
	2 line print	1
Total	Truncate text	2
	2 line print	3

★

#916-B: 1. Finalization by charge (credit)when ST ≤ 0
2. Tendering which is smaller than the sales amount

1. Finalization by charge when ST ≤ 0	2. Tendering which is smaller than the sales amount	916-B
Disable	Enable	0
	Disable	2
Enable	Enable	4
	Disable	6

★

#916-C: 1. Negative merchandise subtotal
2. Subtotal entry compulsory before tendering
3. Subtotal entry before direct non-tendering finalization

1. Negative merchandise subtotal	2. Subtotal entry compulsory before tendering	3. Subtotal entry before direct non-tendering finalization	916-C
Allow	Noncompulsory	Non-compulsory	0
		Compulsory	1
	Compulsory	Non-compulsory	2
		Compulsory	3
Disallow	Non-compulsory	Non-compulsory	4
		Compulsory	5
	Compulsory	Non-compulsory	6
		Compulsory	7

★

#916-D: 1. Coupon PLU printing on X/Z report
2. Net sales subtotal (NET1) printing on X/Z report
3. CHECK change total printing on X/Z report

1. Print coupon PLU's on general report	2. Print net sales SBTL (NET1) on general report	3. Print CHK CHANGE on general report	916-D
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

★

[JOB#917] NOT USED: MRS = 0000

[JOB#918] MRS = 0000

- #918-A: 1. Printing of text of a tied PLU in set PLU
 2. Direct non-tendering finalization after previous tender entry
 3. Output of set PLU to KP

1. Printing of text of a tied PLU in promo PLU	2. Direct non-tendering finalization after previous tender entry	3. Output of set PLU to KP	917-D	
Yes	Disable	By PLU	0	★
		Set PLU's KP	1	
	Enable	By PLU	2	
		Set PLU's KP	3	
No	Disable	By PLU	4	
		Set PLU's KP	5	
	Enable	By PLU	6	
		Set PLU's KP	7	

- #918-B: 1. Red color printing on KP when PLU's unit price is zero

1. Red color printing on KP when PLU's unit price is zero	918-B	
No	0	★
Yes	2	

- ⑤ #918-C: 1. Printing Z1/Z2 counter in Z reports
 2. Cumulating orders on KP
 3. Printing the DEPT/PLU text on KP in double-size character

1. Printing Z1/Z2 counter in Z reports	2. Cumulating orders on KP	3. Printing the DEPT/PLU text on KP in double size character	918-C	
Print	No	Skip	0	★
		Print	1	
	Yes	Skip	2	
		Print	3	
Skip	No	Skip	4	
		Print	5	
	Yes	Skip	6	
		Print	7	

- #918-D: 1. Tip paid includes cash tip
 2. Clering of tip totalizer at clerk Z1 report
 3. Printing of tip totalizer on the clerk report

1. Tip paid includes cash tip	2. Clering of tip totalizer at clerk Z1 report	3. Printing of tip totalizer on the clerk report	918 -D	
Yes	No	No	0	★
		Yes	1	
	Yes	No	2	
		Yes	3	
No	No	No	4	
		Yes	5	
	Yes	No	6	
		Yes	7	

[JOB#919] MRS = 4000

- #919-A: 1. Guest look-up system/PB look-up system

1. Guest look-up system/PB look-up system	919-A	
PB look-up system (PBLU)	2	★
Guest look-up system (GLU)	4	

- #919-B: 1. Checking of clerk# on guest check when a reorder is made
 2. Entry of the number of guests
 3. Guest check No.

1. Checking of clerk# on guest check when a reorder is made	2. Entry of the number of guests	3. Guest check No.	919-B	
Yes	Inhibit	Auto generation	0	★
		Manual	1	
	Compulsory	Auto generation	2	
		Manual	3	
No	Inhibit	Auto generation	4	
		Manual	5	
	Compulsory	Auto generation	6	
		Manual	7	

- #919-C: 1. Change of entry amount by with/without
 2. PB entry
 3. Amount printing when PLU unit price is 0

1. Change of entry amount by with/without	2. PB entry	3. Amount printing when PLU unit price is 0	919 -C	
No	Nocompulsory	No	0	★
		Yes	1	
	Compulsory	No	2	
		Yes	3	
Yes	Nocompulsory	No	4	
		Yes	5	
	Compulsory	No	6	
		Yes	7	

- 919-D: 1. Conversion SBTL printing

1. Conversion SBTL print	919-D	
Yes	0	★
No	4	

[JOB#920] MSR = 0000: INLINE PROGRAMMING AREA

- #920-A: 1. Back-up master function

1. Back-up master function	920-A	
Not	0	★
Exit	1	

- #920-B: 1. System report and down-load job is executed in the back-up master
 2. The GLU finalization is executed in the satellite
 3. The clerk system

1. System report and down-load job is executed in the back-up master	2. The GLU finalization is executed in the satellite	3. The clerk master	920-B	
Disable	Enable	Centralized	0	★
		Individual	1	
	Disable	Centralized	2	
		Individual	3	
Enable	Enable	Centralized	4	
		Individual	5	
	Disable	Centralized	6	
		Individual	7	

- #920-C: 1. PGM mode can enable/disable the satellite unit in the in-line mode.
2. Broad cast communication

1. Programming by the Satellite unit	2. Broad cast communication	920-C
Disable	Nothing	0
	Exist	1
Enable	Nothing	4
	Exist	5

- #920-D: 1. Machine assignment set up.

1. Assignment	920-D
Standalone	0
Sattellite	1
Master	2
Backup master	3

[JOB#921] NOT USED : MRS = 0000

[JOB#922] MRS = 0000: INLINE PROGRAMMING AREA

#922-A, B: Not used (Fixed at "00")

#922-C, D: 1. Transmission speed and Carrier-off waiting time

Transmission speed	Carrier-off waiting time (mSec)	922-CD
480K BPS	3.2	01
	6.4	02
	9.6	04
	12.8	00
1M BPS	1.6	09
	3.2	10
	4.8	12
	6.4	08

[JOB#923] NOT USED : MRS = 0000

[JOB#924] MRS = 0000 : INLINE PROGRAMMING AREA

#924-A: 1. PLU save file

1. PLU save file	924-A
No	0
Yes	1

#924-B: 1. Save file exept for PLU

- Programming whether or not to lock REG-mode entries after individual daily total resetting
2. Locking after clerk resetting
3. Locking after term clerk resetting

1. Save file exept for PLU	2. Locking after clerk resetting	3. Locking after term clerk resetting	924-B
No	Yes	Yes	0
		No	1
	No	Yes	2
		No	3
Yes	Yes	Yes	4
		No	5
	No	Yes	6
		No	7

#924-C: Programming whether or not to lock REG-mode entries after individual daily total resetting when the system has no save file.

1. Locking after hourly resetting No/Yes.
2. Locking after full-item resetting No/Yes.

2. Locking after houly resetting	3. Locking after full-item resetting	924-C
Yes	Yes	0
	No	1
No	Yes	2
	No	3

#924-D: Programming whether or not to lock REG-mode entries after individual periodic total resetting when the system has no save file.

1. Locking after daily net resetting No/Yes.
2. Locking after full-item resetting No/Yes.

2. Locking after daily net resetting	3. Locking after full-item resetting	924-D
Yes	Yes	0
	No	1
No	Yes	2
	No	3

[JOB#925] MRS = 0000 : INLINE PROGRAMMING AREA

#925-A: 1. Entire system general Z (#105) by master.

There are two modes; to reset only those already individually reset or to reset the current sales and those already individually reset.

(Note) For the system without IRM (individual resetting memory), "method 1" in the right table must be selected.

2. YES/NO to automatically clear ECR lock at system general Z-1 (#105) when NO is selected, use #199 to clear lock.
3. Execution of Job#199 when consolidation daily general resetting has not been taken Enable/Disable.

1. Consolidation report	2. Clear IRM files at #105	3. JOB#199 when JOB#105 is not executed	925-A
Method-1	To clear	Disable	0
		Enable	1
	Not to clear	Disable	2
		Enable	3
Method-2	To clear	Disable	4
		Enable	5
	Not to clear	Disable	6
		Enable	7

Method-1: Resets the current sales along with those already individually reset.

Method-2: Resets only those already individually reset.

- #925-B: 1. Selects disable or enable of registration until #199 is executed. after doing general Z1 (#105).
2. ENABLE/DISABLE individual resetting at each terminal.

1. Registration after general Z1	2. Individual reset	925-C
Disable	Disable	0
	Enable	1
Enable	Enable	2
	Disable	3

#925-C: 1. Report format for the entire system or plural number of machines numbers are set for general report. (X1, Z1, X2, Z2)

1. Consolidation report format	925-C
Report plus consolidation report for each machine	0
Consolidation report only	1
Report for each machine only	2

★

#925-D: 1. PLU stock control system
2. Resetting in the open store state

1. PLU stock control system	2. Resetting in the open store state	925-D
Centralized	Disable	0
	Enable	1
Individual	Disable	4
	Enable	5

★

[JOB#926] MRS = 0004

#926-A: 1. Sending "Last void data" on KP
2. Sending "Past void data" on KP

1. Sending "Last void data" on KP	2. Sending "Past void data" on KP	926-A
Yes	Yes	0
	No	1
No	Yes	2
	No	3

★

#926-B: 1. Program reset at PGM 2 mode
2. Sending "Refund data" on KP

1. Program reset at PGM2 mode	2. Sending "Refund data" on KP	926-B
Disable	Yes	0
	No	2
Enable	Yes	4
	No	6

★

#926-C: Not used (Fixed at "0")

#926-D: 1. Dept. /PLU text printing
2. Check VP

1. Dept. /PLU text printing	2. Check VP	926-D
Normal	Normal	0
	Euro check	1
	French check	2
Double	Normal	3
	Euro check	4
	French check	5

★

[JOB#927] MRS = 0000

#927-A: 1. Rounding up of the units digit of amount

#927-B: 1. Rounding down of the units digit of amount

1. Rounding the units digit of amount	927-AB
Common destination	00
Netherland/Switzerland	82
Norway	54
Australia	04

★

#927-C: 1. Difference memory (Difference between before-rounding and after-rounding)
2. Limit on the least significant digit in entering the amount on item

1. Difference memory	2. Limit on the least significant digit in entering the amount on item	927-C
No	Arbitrary	0
	0 only	1
	0 and 5 only	2
Yes	Arbitrary	4
	0 only	5
	0 and 5 only	6

★

#927-D: 1. Application of rounding
2. Limit on the least significant digit in entering the amount of payment

1. Application of rounding	2. Limit on the least significant digit in entering the amount of payment	927-D
Item & Payment	Arbitrary	0
	0 only	1
	0 and 5 only	2
Payment	Arbitrary	4
	0 only	5
	0 and 5 only	6

★

[JOB#928] MRS = 0000

⑤ #928-A (For Germany): 1. Printing of logo text

1. Printing of logo text	928-A
Skip	0
Printing 6 lines on top	1
3 lines on top/3 line bottom	3
6 lines bottom	5

★

#928-A (For other country): 1. Printing of slip logo text

1. Printing of slip logo text	928-A
Skip	0
Print	1

★

#928-B: 1. VP message printing on slip
2. Header line on slip paper when a reorder is made printed

1. VP message printing on slip	1. Header line on slip paper when a reorder is made printed	928-B
Check only	Printed	0
	Not	1
Check & Credit	Printed	2
	Not	3

★

#928-C: 1. Printing of PLU on bill when it is 0
2. Printing of text of a tied PLU in set PLU on bill

1. Printing of PLU on bill when it is 0	2. Printing of text of a tied PLU in set PLU on bill	928-C
Print	Print	0
	Skip	2
Skip	Print	4
	Skip	6

★

* When SRV#928-C is set to 4, in this case the PLU printing on the slip is depend on the 919-C preset

- #928-D: 1. Printing of PB/NBAL on slip
2. Compulsory bill print system

1. Printing of PB/NBAL on slip	2. Compulsory bill print system	928-D
Print	Accoring to each media's preset	0
	Compulsory for evry entry	1
	Compulsory for PB	2
Skip	Accoring to each media's preset	4
	Compulsory for evry entry	5
	Compulsory for PB	6

(The slip printing at NBAL in GLU system is'nt compulsory always.)

[JOB#929] MRS = 0000

- ⑤ #929-A (For Germany): 1. Bill copy

1. Bill copy	929-A
No copy	0
Copy beside each other	1
Copy beneath each other	4

#928-A (For other country): Not used (Fixed at "0")

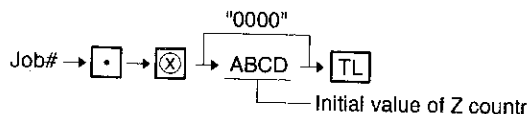
- ⑤ #929-B: 1. Changing of data after general Z (#100)
2. Clerk-Z with open GLU (#181)

1. Changing of data after general Z (#100)	2. Clerk-Z with open GLU (#181)	929-B
No	Disable	0
	Enable	1
Yes	Disable	4
	Enable	5

#929-C, D: Not used (Fixed at "00")

[JOB#930-935, 937-939] MRS = 0000

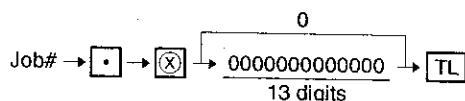
RESET REPORT COUNTER



JOB #	Function
930	Z1 report counter (General report)
931	Consolidated Z1 report counter
932	Clerk Z1 report counter
933	Hourly Z1 report counter
934	PLU Z1 report counter
936	GLU/PBLU Z1 report counter
937	Z2 general report counter
938	Consolidated Z2 report counter
939	31 day daily net Z2 report counter

[JOB#942, 943] MRS = 00000000000000

GT COUNTER PRESETTING

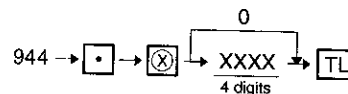


JOB #	Function
942	GT2 (Positive GT)
943	GT3 (Negative GT)

Note: GT1 is obtained by calculation
Equation: GT1=GT2-GT3

[JOB#944] MRS = 0000

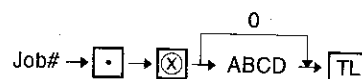
PGM2 secret code presetting



NOTE: When the secret code "0" is programmed, the secret code entry is be inhibited.

[JOB#945] MRS = 0000

The assignment of RS232 channel by each devices



#945-A: 1. Channel No. for On-line = 0 to 7

#945-B: Not used

#945-C, D: Not used (Fixed at "00")

* 0 = No connect

1 to 7 = Channel number

⑤ [JOB#946] MRS = 0000 (For Germany)

#946-A: Not used (Fixed at "0")

#946-B: 1. Channel for serial printer

1. Channel No. for serial printer	946-B
Channel No.	0 to 7

#946-C, D: Not used (Fixed at "00")

[JOB#946] NOT USED: MRS = 0000 (For other country)

[JOB#948] MRS = 000000

PROGRAMMING OF TRAINING CLERK NO.

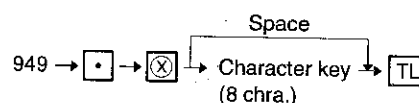


XXX: Clerk 1

YYY: Clerk 2

[JOB#949] MRS = "TRAINING"

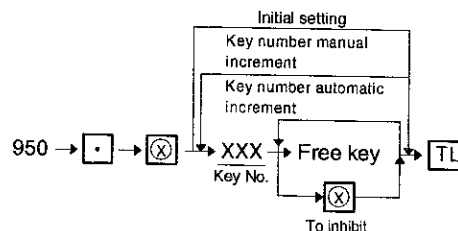
THE TRAINING MODE'S TITLE



Characters can be entered by using alphabetic keys or numeric keys.
Please refer to section 3.

[JOB#950] MRS = STANDARD KEY LAYOUT

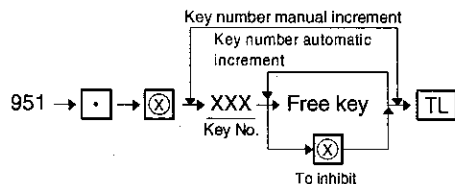
Free key layout (Except for department keys and direct PLU keys.)



[JOB#951]

MRS = STANDARD KEY LAYOUT

Free key layout (department keys and direct PLU keys)



- Programming of the keys to be dept keys or direct PLU keys on the keyboard.
- Key No. is assigned to each key which is supposed to be dept. Key or direct PLU key by depressing the key after entering the key No.
- Those keys programmed by this job No. will be dept. keys if dept. code is assigned, and will be direct PLU keys if PLU code is assigned in the PGM2 mode.

FUNCTION KEY LIST

Key No.	Function	Key text
01	0 KEY	0 KEY
02	1 KEY	1 KEY
03	2 KEY	2 KEY
04	3 KEY	3 KEY
05	4 KEY	4 KEY
06	5 KEY	5 KEY
07	6 KEY	6 KEY
08	7 KEY	7 KEY
09	8 KEY	8 KEY
10	9 KEY	9 KEY
11	00 KEY	00 KEY
12	000 KEY	000 KEY
13	DECIMAL POINT	. KEY
14	CLEAR	CLEAR
15	⊗	x
16	SUB TOTAL	SBTL
17	TOTAL	TOTAL
18	#	#
19	NO SALE	NS
20	PLU	PLU
21	G.C.COPY	GCCOPY
22	PRICE SHIFT 1	P.SFT 1
23	PRICE SHIFT 2	P.SFT 2
24	PRICE SHIFT 3	P.SFT 3
25	VP	VP
26	SLIP	SLIP
27	RCPT	RCPT
28	VOID	VOID
29	REFUND	RFND
30	%1	%1
31	%2	%2
32	%3	%3
33	%4	%4
34	⊖ 1	(-) 1
35	⊖ 2	(-) 2
36	⊖ 3	(-) 3
37	⊖ 4	(-) 4
38	VAT	VAT
39	AUTO	AUTO
40	AUTO2	AUTO2
41	AUTO3	AUTO3
42	AUTO4	AUTO4

Key No.	Function	Key text
43	AUTO5	AUTO5
44	CASH2	CA2
45	CHECK	CHECK
46	CR1	CR1
47	CR2	CR2
48	CR3	CR3
49	CR4	CR4
50	CR5	CR5
51	CR6	CR6
52	CR7	CR7
53	CR8	CR8
54	EX1	EX 1
55	EX2	EX 2
56	EX3	EX 3
57	EX4	EX 4
58	EX5	EX 5
59	EX6	EX 6
60	EX7	EX 7
61	EX8	EX 8
62	EX9	EX 9
63	GLU/PBLU	PBAL
64	N. C.	N. C
65	NBAL	NBAL
66	FINAL	FINAL
67	HOTEL TRANS.	H. T.
68	RA	RA
69	PO	PO
70	1/2	1 / 2 KEY
71	AMT	AMT
72	HALF PINT	H. PINT
73	VAT SHIFT	VAT SF
74	RCPT SHIFT	RCPT SF
75	VIP SALE	VIP
76	GUEST#	GUEST #
77	DEPOSIT	DPST
78	DEPOSIT RF	DEP. RF
79	B. T.	B. T.
80	TRANS OUT	TR. OUT
81	TRANS IN	TR. IN
82	C. BILL	C. BILL
83	G. C. RCPT	GC RCP
84	CASH TIP	CA TIP
85	NON CASH TIP	NC TIP
86	TIP PAID	TIP PD
87	WITH	WITH
88	WITHOUT	WITHOU
89	TEXT #	TEXT #
90	TEXT 1	TEXT 1
91	TEXT 2	TEXT 2
92	TEXT 3	TEXT 3
93	TEXT 4	TEXT 4
94	TEXT 5	TEXT 5
95	TEXT 6	TEXT 6
96	TEXT 7	TEXT 7
97	TEXT 8	TEXT 8
98	TEXT 9	TEXT 9
99	TEXT 10	TEXT 10
100	CLERK #	CLERK #
101	CLERK 1	CLK 01
102	CLERK 2	CLK 02
103	CLERK 3	CLK 03
104	CLERK 4	CLK 04

Key No.	Function	Key text
105	CLERK 5	CLK 05
106	CLERK 6	CLK 06
107	CLERK 7	CLK 07
108	CLERK 8	CLK 08
109	CLERK 9	CLK 09
110	CLERK 10	CLK 10
111	CLERK 11	CLK 11
112	CLERK 12	CLK 12
113	CLERK 13	CLK 13
114	CLERK 14	CLK 14
115	CLERK 15	CLK 15
116	CHECK PRINT	CHK PR
117	LEVEL 1	L1
118	LEVEL 2	L2
119	LEVEL 3	L3
120	AUTO6	AUTO6
121	AUTO7	AUTO7
122	AUTO8	AUTO8
123	AUTO9	AUTO9
124	AUTO10	AUTO10
125	CHECK2	CHECK2
126	CHECK3	CHECK3
127	CHECK4	CHECK4
128	B.S.	B.S.

ER-A670/A650 KEY POSITION

R	J	28	38	48	58	68	78	88	98	108	118	128	138	148	158
9	18	27	37	47	57	67	77	87	97	107	117	127	137	147	157
8	17	26	36	46	56	66	76	86	96	106	116	126	136	146	156
7	16	25	35	45	55	65	75	85	95	105	115	125	135	145	155
6	15	24	34	44	54	64	74	84	94	104	114	124	134	144	154
5	14	23	33	43	53	63	73	83	93	103	113	123	133	143	153
4	13	22	32	42	52	62	72	82	92	102	112	122	132	142	152
3	12	21	31	41	51	61	71	81	91	101	111	121	131	141	151
2	11	20	30	40	50	60	70	80	90	100	110	120	130	140	150
1	10	19	29	39	49	59	69	79	89	99	109	119	129	139	149

⑤ [JOB#952] MRS = EMPTY (For Germany)

Initial strings character setting

952 → [] → [X] → (Character key) → [TL]

Characters = Max. 20 characters

Characters can be entered by using character keys or numeric keys.

The key entry sequence for entering one character by numeric keys is as follows.

XXX → 00 KEY XXX: Character code (3 digit)

Please refer to section 3 (Page 36)

⑤ [JOB#953] MRS = 012 (For Germany)

End strings character setting

953 → [] → [X] → (Character key) → [TL]

Characters = Max. 20 characters

Characters can be entered by using character keys or numeric keys.

The key entry sequence for entering one character by numeric keys is as follows.

XXX → 00 KEY XXX: Character code (3 digit)

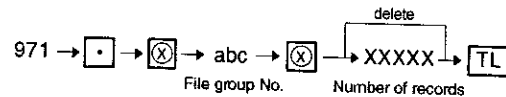
Please refer to section 3 (Page 36)

[JOB#971]

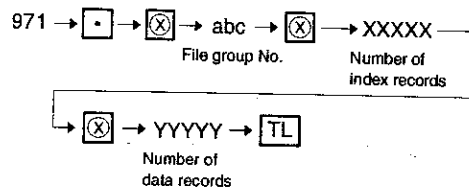
SRV FILE PROGRAMMING. (File creation deletion and change of record count or block count)

Key operation

- Normal file



- GLU file



File table

Group No.	File name	Type	* File table No. (Create/Erase)
1	Dept	1	01, 02, 03, 05
2	Dept Text (8)	0	03
3	Dept Text (16)	0	04
4	PLU	1	11, 12, 15, 18
5	PLU Price1	0	12
6	PLU Price1 & 2	0	13, 80
8	PLU Price1 & 2 & 3	0	14, 80, 86
8	PLU Text (8)	0	15
9	PLU Text (16)	0	16
10	PLU stock	0	17
11	Link PLU	1	24
12	Set PLU	1	25
13	Clerk	1	33, 34, 35, 39, 40
14	Hourly	1	56, 57
15	Daily net	1	61, 62
16	Reg buffer	1	69
17	KP buffer	0	70
18	Overlapped clerk	0	71
19	GLU/PBLU 1	1	72, 73, 75
20	GLU/PBLU 2	1	72, 73, 75
21	Free Text	1	77
22	GLU Rcv. buffer (IRC)	2	74
23	Clerk sign on/off (IRC)	2	54, 55
24	KP preset (IRC)	1	78, 79
25	Term Dept	0	06
26	Term PLU	0	19, 81, 87
27	Term Transaction	0	28
28	Term clerk	0	41
29	All of term file	0	06, 19, 81, 87, 28, 41
30	GLU/PBLU 1	1	75
31	GLU/PBLU 2	1	76
32	GLU/PBLU buffer	1	72, 73
33	Condiment for PLU	0	92, 94
34	Condiment table	1	93

Type = 0 ; Create/Erase only

Type = 1 ; Create/Erase and Increase/decrease the number of Records or blocks

Type = 2 : Create/Erase and Increase/decrease the number of blocks
* : The files which are created or erased by the entry of group No.

** : For individual erase

File table

Table No.	File Name	Record			Block			Lbi size	Data Size
		MRS	Max	#1	MRS	Max	#2		
1	Dept Preset	20	50		1	1		1	8
2	Price	20	50	(1)	1	1		0	3
3	Text (8 chara)	20	50	(1)	1	1		0	8
4	Text (16 chara)	0	50	(1)	0	1		0	16
5	Daily	20	50	(1)	1	1		0	9
6	Term	20	50	(1)	1	1		0	9
7	Save Daily	0	50	(1)	0	1		0	9
8	Save Term	0	50	(1)	0	1		0	9
9	Consol.	0	50	(1)	0	1		0	9
10	Receive	0	50	(1)	0	1		0	9
11	PLU Preset	240	***		1	1		5	8
12	Price 1	240	***	(11)	1	1		0	3
13	Price 2	240	***	(11)	0	1		0	6
14	Price 3	240	***	(11)	0	1		0	9
15	Text (8 chara)	240	***	(11)	1	1		0	8
16	Text (16 chara)	0	***	(11)	0	1		0	16
17	Stock	0	***	(11)	0	1		0	4
18	Daily	240	***	(11)	1	1		0	9
19	Term	240	***	(11)	0	1		0	9
20	Save Daily	0	***	(11)	0	1		0	9
21	Save Term	0	***	(11)	0	1		0	9
22	Consol.	0	***	(11)	0	1		0	9
23	Receive	0	***	(11)	0	1		0	9
24	Link PLU	30	***		1	1		3	15
25	Set PLU	10	***		1	1		3	30
⑤ 26	Transaction Label	99	99		1	1		2	0
⑤ 27	Daily	99	99	(26)	1	1		0	8
⑤ 28	Term	99	99	(26)	1	1		0	8
⑤ 29	Save Daily	0	99	(26)	0	1		0	8
⑤ 30	Save Term	0	99	(26)	0	1		0	8
⑤ 31	Consol.	0	99	(26)	0	1		0	8
⑤ 32	Receive	0	99	(26)	0	1		0	8
33	Clerk Preset	6	255		1	1		1	8
34	Flag	6	255	(33)	1	1		0	6
35	Text	6	255	(33)	1	1		0	8
36	Receive Clerk Preset	0	255	(33)	0	1		1	8
37	Flag	0	255	(33)	0	1		0	6
38	Text	0	255	(33)	0	1		0	8
⑤ 39	Clerk trans. Label	76	76		6	255	(33)	2	0
⑤ 40	Daily	76	76	(39)	6	255	(33)	0	8
⑤ 41	Term	76	76	(39)	6	255	(33)	0	8
⑤ 42	Save Daily	0	76	(39)	0	255	(33)	0	8
⑤ 43	Save Term	0	76	(39)	0	255	(33)	0	8
⑤ 44	Consol.	0	76	(39)	0	255	(33)	0	8
⑤ 45	Receive	0	76	(39)	0	255	(33)	0	8
⑤ 46	Reset clerk Label	76	76	(39)	1	1		2	0
⑤ 47	Daily	76	76	(39)	1	1		0	8
⑤ 48	Save Daily	0	76	(39)	1	1		0	8
⑤ 49	Consol.	0	76	(39)	1	1		0	8
⑤ 50	Receive	0	76	(39)	1	1		0	8
⑤ 51	Total clerk Label	76	76	(39)	1	1		2	0
⑤ 52	Toatl	76	76	(39)	1	1		0	8
⑤ 53	Consol.	0	76	(39)	1	1		0	8
⑤ 54	Clerk sign on/off Label	0	76	(39)	1	1		2	0
⑤ 55	Receive	0	76	(39)	1	1		0	8
56	Hourly Label	49	49		1	1		1	0
57	Daily	49	49	(56)	1	1		0	8
58	Save Daily	0	49	(56)	0	1		0	8
59	Consol.	0	49	(56)	0	1		0	8

Table No.	File Name	Record			Block			Lbl size	Data Size
		MRS	Max	#1	MRS	Max	#2		
60	Receive	0	49	(56)	0	1		0	8
61	Daily net Label	32	32		1	1		3	0
62	Total	32	32	(61)	1	1		0	8
63	Daily net Save Label	0	32	(61)	1	1		3	0
64	Save	0	32	(61)	0	1		0	8
65	Daily net Consol. Label	0	32	(61)	0	1		3	0
66	Consol.	0	32	(61)	0	1		0	8
67	Daily net Receive Label	0	32	(61)	0	1		3	0
68	Receive	0	32	(61)	0	1		0	8
69	Reg buffer	80	255		1	1		0	35
70	KP buffer	0	255	(69)	0	1		0	35
71	Over lapped clerk	0	255	(69)	0	*	(33)	0	35
72	GLU/PBLU buffer	80	255	(69)	0	1		0	35
73	B. T. buffer	80	255	(69)	0	1		0	35
74	GLU/PBLU Rcv. buffer	0	255	(69)	0	1		0	35
75	GLU/PBLU 1	<label: data> 50:1910	****	****	0	1		8	32
76	GLU/PBLU 2	0	****	****	0	1		8	37
77	Free text	200	99		1	1		1	21
78	KP preset	0	9		0	1		1	3
79	KP Text	0	9	(79)	0	1		0	12
80	PLU Daily (for price2)	240	***	(11)	0	1		0	9
81	Term (for price2)	240	***	(11)	0	1		0	9
82	Save Daily (for price2)	0	***	(11)	0	1		0	9
83	Save Term (for price2)	0	***	(11)	0	1		0	9
84	Consol. (for price2)	0	***	(11)	0	1		0	9
85	Receive (for price2)	0	***	(11)	0	1		0	9
86	PLU Daily (for price3)	240	***	(11)	0	1		0	9
87	Term (for price3)	240	***	(11)	0	1		0	9
88	Save Daily (for price3)	0	***	(11)	0	1		0	9
89	Save Term (for price3)	0	***	(11)	0	1		0	9
90	Consol. (for price3)	0	***	(11)	0	1		0	9
91	Receive (for price3)	0	***	(11)	0	1		0	9
92	Condiment PRG for PLU	0	***	(11)	0	1		0	7
93	Condiment table	0	99		0	1		1	60
94	Condiment buffer	0	20		0	1		0	35

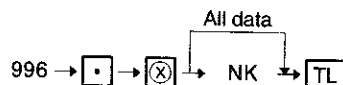
(#1): Same as the number of record of table no. N

(#2): Same as the number of block of table no. N

[JOB#996, 998] SIO data send/receive (ECR↔ECR, ECR↔ER-02FD)

Note: When this JOB is executed at the master with the satellite machine operating in the inline system, data may not be saved in a floppy disc. Therefore this JOB should be used only when all the other machines in the inline system are not used.

[JOB#996] SIO data send



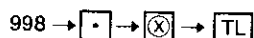
NK: 0 = SSP

1 = Standard RAM+01RA/02RA

2 = 01MB (0.5MB)/02MB (0.5MB: 1st half)

3 = 02MB (0.5MB: 2nd half)

[JOB#998] SIO data receive



CHAPTER 2. PROGRAM (PGM2/PGM1) MODE

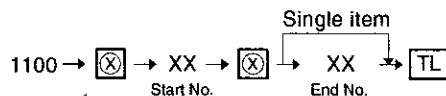
⑤ [JOB#1200]: PLU reading

Key operation

1. Reading of the PGM mode program

[JOB#1100]: DEPT reading

Key operation



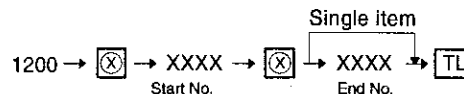
21/08/92 12:34PM 0001	
123456#0123 BROWN	
#1100 *PGM1*	
JOB CODE/MODE TITLE	
D01 T123456 -1000.00	DPT CODE/ TAXABLE/SIGN. PRICE
DPT.01 G01	TEXT/GROUP No.
0000003 KP121 C1L18	(*1) PROGRAM/(*2) PRINT STATION/HALO
:	/COMMISSION GROUP/HALO
:	
:	

(*1) PROGRAM : ABCDEFG

A: (Not used)	0
B: Item vp compulsory/noncompulsory	1/0
C: (Not used)	0
D: (Not used)	0
E: SIF/SICS/Normal	2/1/0
F: Receipt type Double/Single	1/0
G: Amount entry type	
Open and preset/preset/open/inhibited	3/2/1/0

(*2) PRINT STATION (Option) : "KP" ABC

A: KP1 No. of In-line/no output	= 1 to 9/0
B: KP2 No. of In-line/no output	= 1 to 9/0
C: Printing on receipt	Yes/No = 1/0



21/08/92 12:34PM 0001	
123456#0123 BROWN	
#1200 *PGM1*	
JOB CODE/MODE TITLE	
Associated	
P000001(01) /00	PLU CODE/DEPT code/(*1)/BASE Q'TY
T123456 -1000.00	TAXABLE/SIGN. PRICE1
-1000.00	SIGN. PRICE2
-1000.00	SIGN. PRICE3
PL000001 C1	TEXT
003 KP121 S 1000.000	(*2) PROGRAM/PRINT STATION/STOCK
01 02 03 04 05 06	Condiment table #
P000001 ----	WHEN DELETE PLU

(*1) NORMAL · LINK PLU · SET PLU

:	NORMAL
:	L LINK PLU
:	S SET PLU

(*2) PROGRAM : ABC

A: Condiment type	Yes/No	1/0
B: (Not used)		0
C: Amount entry type		
Open and preset/preset/open /inhibited =	3/2/1/0	
(PLU) (SUB-dept)		

[JOB#1220]: STOCK ADD PRESET

21/09/92 14:30	
123456#0123	
#1220 *PGM1*	
JOB CODE/MODE TITLE	
OLD STOCK	
P000001 1000.000	(INPUT STOCK)
10.000	
S 1010.000	NEW STOCK

[JOB#1221]: STOCK SUB PRESET

21/09/92 14:30
123456#0123

#1221 *PGM1*

P000001 1000.000
-10.000
S 990.000

JOB CODE/MODE TITLE

OLD STOCK
(INPUT STOCK)
NEW STOCK

[JOB#1222]: STOCK IN VENTRY PRESET

21/09/92 14:30
123456#0123 BROWN

#1222 *PGM1*

P000001 1000.000
500.000
S 1500.000

JOB CODE/MODE TITLE

OLD STOCK
(NEW STOCK) - (OLD STOCK)
NEW STOCK (INPUT STOCK)

⑤ [JOB#2217]: PLU LEVEL RANGE READING

Key operation

2217 → ☐ → ☐ → TL

01/01/00 3:55 0001
000000#0008 CLERK001

#2217 *PGM2*

1 000001-000080
2 000081-000160
3 000161-000240

JOB CODE/MODE TITLE

PLU LEVEL RANGE

[JOB#2220]: LINK PLU PRESET OR READING

Key operation

2220 → ☐ → XXXXXX → ☐ → XXXXXX → TL

Start No. End No.

01/08/92 12:34PM 0001
123456#0123 BROWN

#2220 *PGM2*

P000001 L P001001
P001002
P001003

JOB CODE/MODE TITLE

PLU CODE/LINK PLU CODE (MAX 5)

[JOB#2221]: SET MENU PRESET OR READING

Key operation

2221 → ☐ → XXXXXX → ☐ → XXXXXX → TL

Start No. End No.

Single item

01/08/92 12:34PM 0001
123456#0123 BROWN

#2221 *PGM2*

P000001 SP001001
P001002
P001003
P001004
P001005

JOB CODE/MODE TITLE

PLU CODE/LINK PLU CODE (MAX 10)

⑤ [JOB#2223]: CONDIMENT TABLE READING

Key operation

2223 → ☐ → XX → ☐ → XX → TL

Start No. End No.

Single item

01/01/00 4:05 0001
000000#0018 CLERK001

#2223 *PGM2*

01 # P000001
P000002
P000003
P000004
P000005
P000006
02 # P000007
P000008
P000009
P000010

CONDIMENT TABLE #/PLU CODE

[JOB#1300]: FUNCTION PRESET READING

Key operation

1300 → ☒ → ☐ TL

01/08/94 12:34PM 0001
123456#0123 BROWN

#1300 *PGM1*

F001 (-) 1
I -1000.00
L17

F002 (-) 2
S -2000.00
L17

F005 % 1
I -10.00%
L 20.00%

F006 % 2
S -20.00%
L 30.00%

F047 CA/CHK
999999.99

F050 CASH L18
000000000000

F061 EXCH1
9999.9999

F080 ****C1D
9999999.99

F083 CHK/CG
999999.99

F143 GROUP1
144 GROUP2

(*1) PGM: ABCDEFGHIJK

A:	Slip print compulsory/noncompulsory	1/0
B:	Footer print Yes/No.	1/0
C:	Non-add code entry compulsory/noncompulsory	1/0
D:	Change due Disable/Enable	1/0
E:	VP compulsory/noncompulsory	1/0
F:		0
G:		0
H:		0
I:		0
J:	Drawer opening No./Yes	1/0
K:	Entry of amount tendered	
	compulsory/noncompulsory (Cash, check)	1/0
	compulsory/inhibit (CR1 TO 8)	1/0

Ⓢ [JOB#2600]: READING OF OTHER

Key operation

2600 → ☒ → ☐ TL

21/09/94 14:30
123456#0123

#2600 *PGM1*

#2614
SHARP
IS
THE BEST
YOUR
RECEIPT
THANK YOU

#2615 00 00 99 1 0
#2616
1 00000000
2 00000000
3 00000000
4 00000000
5 00000000
6 00000000

#2617 000
#2619 1 08
#2620
20
000001- 001000
40

#2621
00
60

#2630 0000
#2631 0000
#2632 0000

(*1) SLIP/VP: xxabcdyz

xx : MINIMUM LENGTH FOR BILL ON RECEIPT

ab : INITIAL SLIP FEED LINE = 0 to 64

cd : SLIP PRINT MAX LINE NO. = 0 to 99

y : NO. OF TIMES OF VALIDATION PRINTING = 0 to 9

z : (Not used) = 0

(*2) Optional feature: ABCDEFGH

x : 1

A:	OP X/Z report	Disable/Enable	1/0
B:	PO operation in REG mode	Disable/Enable	1/0
C:	(not used)		0
D:	"RFND" key entry in REG mode	Disable/Enable	1/0
E:	Direct void function in REG mode	Disable/Enable	1/0
F:	Indirect void in REG mode	Disable/Enable	1/0
G:	Subtotal void in REG mode	Disable/Enable	1/0
H:	Refund VP	Compulsory/Noncompulsory	1/0

x : 2

A:	The first last item void		0
B:	PLU level shift system	Manual/Auto	1/0
C:	PLU level shift system	MGR/MGR & REG	1/0
D:	Printing of the number of purchases	Yes/No	1/0
E:	Time print	No/Yes	1/0
F:	Journal select/Full print		1/0
G:	Item VP	Disable/Enable	1/0
H:	(-) VP	Compulsory/Noncompulsory	1/0

x: 3

A:	(Not used)		0
B:	Zero skip in clerk report	No/Yes	1/0
C:	(Not used)		0
D:	Zero skip in transaction report	No/Yes	1/0
E:	Zero skip in DEPT. report	No/Yes	1/0
F:	Zero skip in PLU report	No/Yes	1/0
G:	Zero skip in hourly report	No/Yes	1/0
E:	Zero skip in Daily net report	No/Yes	1/0

x: 4

A:	(Not used)		0
B:	(Not used)		0
C:	Vat amount printing (VAT system)	No/Yes	1/0
D:	Taxable amount printing (VAT system)	No/Yes	1/0
E:	Net amount printing (VAT system)	No/Yes	1/0
F:	(Not used)		0
G:	(Not used)		0
H:	When PLU level system is "AUTO" (x: 2 B=0), PLU level returns to level 1 by one receipt/by one item		1/0

x: 5

A:	Intermediate GLU reading in REG mode		
	Disable/Enable		1/0
B:	VIP sales in REG mode	Disable/Enable	1/0
C:	Double receipt header	1 line/normal	1/0
D:	VAT shift system	By shift key/by clerk	1/0
E:	PLU price shift system	By clerk/by shift key	1/0
F:	PLU price shift system	MGR/MGR&REG	1/0
G:	PLU price shift system	Manual/Auto	1/0
H:	Return timing at "Auto" (x: 5 G=0) By one receipt/by one item		1/0

x: 6

A:	Vat/Tax amount printing on Bill	No/Yes	1/0
B:	Taxable amount printing on Bill	No/Yes	1/0
C:	Net amount printing on Bill		
D:	Printing of time on Bill	Yes/No	1/0
E:	Bill printing on slip	No/Yes	1/0
F:	Bill printing on receipt	No/Yes	1/0
G:	Intermediate reading on slip	No/Yes	1/0
H:	Intermediate reading on receipt	No/Yes	1/0

x: 7 (Not used)

MRS=00000000

x: 8

MRS=00000000

A:	GLU finalize after ordering allowed	No/Yes	1/0
B:	Non turnover including VAT	Yes/No	1/0
C:	Updating of sales quantity by VIP sales	Yes/No	1/0
D:	Not used (Fixed at "0")		
E:	Not used (Fixed at "0")		
F:	Not used (Fixed at "0")		
G:	Not used (Fixed at "0")		
H:	Not used (Fixed at "0")		

x: 9

MRS=00000000

A:	Not used (Fixed at "0")		
B:	Not used (Fixed at "0")		
C:	Not used (Fixed at "0")		
D:	Not used (Fixed at "0")		
E:	Skip/Print of department report	Skip/Print	1/0
F:	Skip/Print of transaction report	Skip/Print	1/0
G:	Skip/Print of tax sale report	Skip/Print	1/0
H:	Skip/Print of CID report	Skip/Print	1/0

(*3) Hourly report : a bc

a:	Hourly report format by 15 minutes/by 30 minutes	1/0
bc:	start hour	00 to 23

[JOB#2640]: READING OF TEXT PROGRAMMING

Key operation

2640 → ☒ → TL

01/08/94 12:34PM 0001	
123456#0123 BROWN	
#2640 *PGM1*	
#2640	
#01	
TEXT01	
...	
#2641	
#01	ENTRY ERROR
#02	MISOPERATION
...	
50	
#2642	
FOR DEPOSIT ONLY	
#2643	
...	
#2644	
1	ENTER DEPT#
2	PRICE
3	PROGRAMMING
4	TAX
5	HALO
6	TEXT
7	COMMISSION
8	GROUP
9	PRINT STAT.
10	ENTER PLU#
11	DEPT & TYPE
12	BASE Q'TY
13	SIGN AND TAX
#2646	

JOB CODE/MODE TITLE

FREE TEXT NO.1
TEXT

MESSAGE TEXT

VP TEXT

SLIP TEXT

GUIDANCE

PAYEE NAME FOR ENGLISH CHECK

[JOB#2900]: AUTO KEY READING

Key operation

2900 → ☒ → ☐ TL

21/09/94 14:30 123456#0123	
#2900 *PGM2*	JOB CODE/MODE TITLE
#01	1 key 0 key 0 key TOTAL
#02	D01 (DEPT01) D02 P000001 (PLU000001)

[JOB#2700]: TAX TABLE READING REP.

Key operation

2700 → ☒ → ☐ TL

21/09/94 14:30 123456#0123	
#2700 *PGM2*	JOB CODE/MODE TITLE
TAX1	10.0000% TAX NO./RATE 0.10 LOWER TAX LIMIT
TAX2	4.0000% TABLE NO./RATE 0.10 LOWER TAX LIMIT
TAX3	5.0000% 0.20
TAX4	6.0000% 0.30
TAX5	7.0000% 0.40
TAX6	8.0000% 0.50

© [JOB#1400]: CLERK READING REP.

Key operation

1400 → ☒ → ☐ TL

01/08/94 14:34PM 0001 123456#0123 BROWN	
#1400 *PGM1*	JOB CODE/MODE TITLE
001C# 0001 CLERK001	CLERK CODE/NAME
0001-0010 0000000D1	TABLE LINK NO./(*1)
002C# 0002 CLERK002	
0011-0020 0000000D1	
003C# 0003 CLERK003	
0021-0030 0000000D1	
004C# 0004 CLERK004	
0031-0040 0000000D1	

[JOB#2119]: DIRECT KEY READING REP.

Key operation

2119 → ☒ → ☐ TL

21/09/94 14:30 123456#0123		DATE (MM/DD/YY)/TIME MACHINE NO./CC-NO.
#2119 *PGM2*	JOB CODE/MODE TITLE	
001	D01	KEY NO./DEPT CODE OR PLU CODE
002	D02	
051	P000001	
052	P000002	
151		

(*1) ABCDEFGH

A: Supervisor clerk	Yes/No	= 1/0
B: VIP sale	Disable/Enable	= 1/0
C: GLU/PBL	Compulsory/noncompulsory	= 1/0
D: G. C. COPY	Disable/Enable	= 1/0
E: VAT shift	State/Not	= 1/0
F: Price Level	Price 3/Price 2/price 1	= 2/1/0
G: Working time control	Yes/No	= 1/0
H: DRAWER NO. /NOT OPEN		= 1 to 4/0

[JOB#2990]: TERMAL PRINTER PROGRAMMING **READING REP. (ER-A670 S)**

Key operation

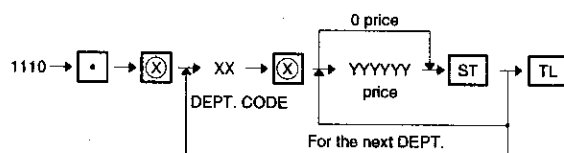
2900 → ☒ → ☐ TL

01/08/94 12:34PM 0001 123456#0123 BROWN	
#2990 *PGM2*	JOB CODE/MODE TITLE
0 50	AUTO CUTTER YES/NO, LIGHT AND SHADE
10 : 0123456789ABCDEF	PRINTING UNDER "10"
20 : 0123456789ABCDEF	PRINTING UNDER "20"
30 : 0123456789ABCDEF	PRINTING UNDER "30"
40 : 0123456789ABCDEF	PRINTING UNDER "40"
50 : 0123456789ABCDEF	PRINTING UNDER "50"
60 : 0123456789ABCDEF	PRINTING UNDER "60"
70 : 0123456789ABCDEF	PRINTING UNDER "70"
80 : 0123456789ABCDEF	PRINTING UNDER "80"
90 : 0123456789ABCDEF	PRINTING UNDER "90"

2. Programming

[JOB#1110]

PROGRAMMING OF DEPT. PRICE



XX: DEPT-CODE = 01 ~ 99

YYYYYY: PRICE = 0 ~ 999999

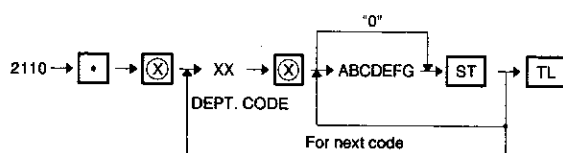
Preset price is max. 6 digits.

Price can be programmed for each dept. If this programming is performed, the ECR is automatically programmed to allow preset price entry even when it has been programmed not to allow preset price entry in dept. function programming (JOB#2110).

MRS = 000000

[JOB#2110]

PROGRAMMING OF DEPT. FUNCTION



XX: DEPT. code = 01 ~ 99

A: Not used (Fixed at "0")

B: Item validation printing	2110-B
Non compulsory	0
Compulsory	1

C: Not used (Fixed at "0")

D: Not used (Fixed at "0")

E: SICS Function	2110-E
Normal	0
Single item cash sale	1
Single item finalize	2

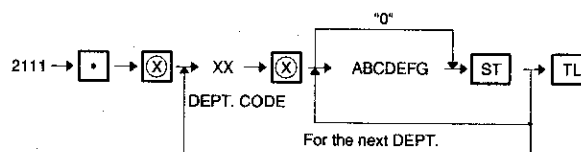
F: Receipt type	2110-F
Single	0
Double	1

G: Amount entry type	2110-G
Inhibited	0
Open	1
Preset	2
Open and preset	3

MRS = 000001

[JOB#2111]

DEPT. TAX STATUS AND SIGN PROGRAMMING



XX: DEPT. CODE = 01 ~ 99

A: Not used (Fixed at "0")

B: Taxable 6 = 1

Non-taxable 6 = 0

C: Taxable 5 = 1

Non-taxable 5 = 0

D: Taxable 4 = 1

Non-taxable 4 = 0

E: Taxable 3 = 1

Non-taxable 3 = 0

F: Taxable 2 = 1

Non-taxable 2 = 0

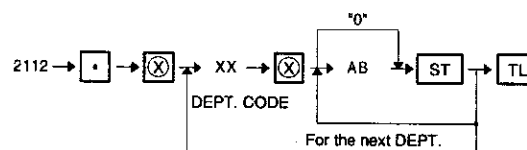
G: Taxable 1 = 1

Non-taxable 1 = 0

MRS = 0000000

[JOB#2112]

DEPT. HALO (limit) preset



XX: DEPT. CODE = 01 ~ 99

A: Mantissa = 1 ~ 9

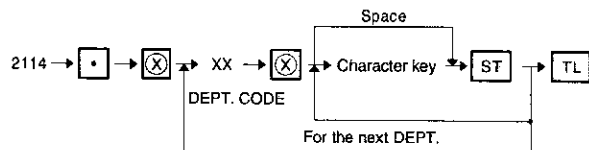
B: Exponent = 0 ~ 7

* Items A and B indicate $A \times 10^B$. Any amount below that value is enable within 9999999.

MRS = 17

###[JOB#2114]

DEPT. TEXT PROGRAMMING



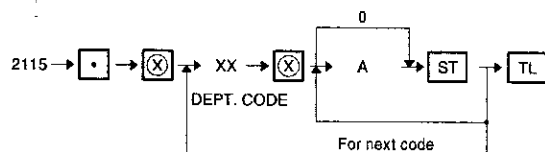
XX: DEPT. CODE = 01 ~ 99

Characters can be entered by using alphabetic keys or numeric keys.
Please refer to section 3.

MRS = DPT. XX

[JOB#2115]

COMMISSION GROUP PROGRAMMING

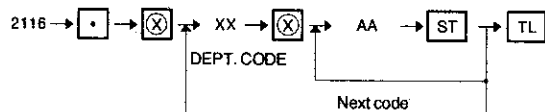


XX: DEPT. CODE = 01 ~ 99

A: Group No. = 0~3

[JOB#2116]

PROGRAMMING OF DEPT. GROUP



XX: DEPT. code = 01 ~ 99

AA: Group No. = 1 ~ 17

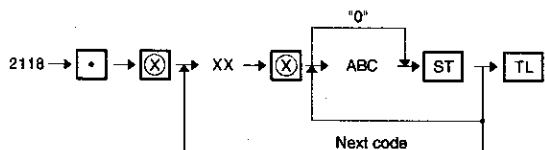
- Groups 1 to 9: Plus department
- Groups 10: Minus department
- Group 11: Plus HASH department
- Group 12: Minus HASH department
- Group 13: Not used
- Group 14: Not used
- Group 15: Non-turnover 1
- Group 16: Non-turnover 2
- Group 17: Non-turnover 3

MRS = 01

A selection of the group "Hash" is inhibited when the hash function is programmed as disabled in SRV mode.

[JOB#2118]

PRINT STATION PROGRAMMING



XX: DEPT. code = 01 ~ 99

A: KP1 No. of inline = 1~9

No output = 0

B: KP2 No. of inline = 1~9

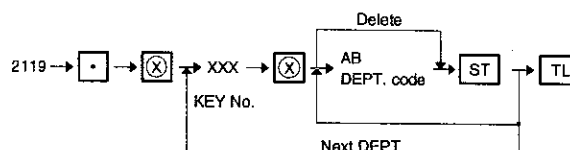
No output = 0

C:	Printing on receipt	2118-C
	No	0
	Yes	1

MRS = 001

[JOB#2119]

LINK NUMBER PROGRAMMING FOR DIRECT DEPT. KEYS



DEPT. code is assigned to the key no. Which has been programmed in JOB#951 programming.

AB: DEPT. CODE = 01 ~ 99

[JOB#2100]

LEAD THROUGH PROGRAMMING FOR DEPARTMENT

Key sequence	Display	Guidance No.	Contents
2100 → • → ⊗	ENTER DEPT#	1	
→ XX → ⊗	PRICE	2	
→ XXXXXX → ST	PROGRAMMING	3	Job#1110
→ XXXXXX → ST	TAX	4	Job#2110
→ XXXXXX → ST	HALO	5	Job#2111
→ XX → ST	TEXT	6	Job#2112
→ (Chara.) → ST	COMMISSION	7	Job#2114
→ X → ST	GROUP	8	Job#2115
→ XX → ST	PRINT STAT.	9	Job#2116
→ XXX → ST	PRICE	2	Job#2118

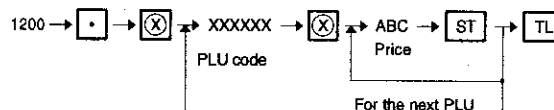
(Dept # is able to be entered by the operation of "XX (⊗)".)

→ TL

(The entry moves the next step by (⊗) key and returns the previous step by CL key.)

[JOB#1200]

Creating/assigning PLUs and the associated departments.

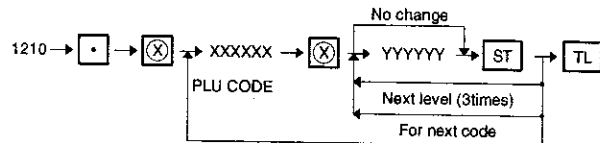


xxxx: plu code = 01 ~ 999999

AB: DEPT. code = 01 ~ 99

C:	Amount entry type	C
	Inhibited	0
	Open	1
	Preset	2
	Open and preset	3
	Delete	4

MRS = 012

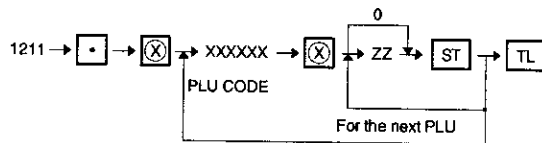
[JOB#1210]**PRICE PROGRAMMING FOR PLUS (Price 1, 2 and 3)**

XXXX: PLU CODE = 1 ~ 999999

YYYYYY: Amount = 0 ~ 999999

Any PLU code should already be defined (JOB#1200) when, its unit price is programmed.

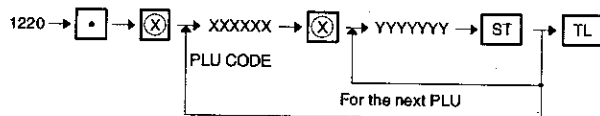
MRS = 000000

[JOB#1211]**PLU BASE Q'TY PROGRAMMING**

XXXX: PLU code = 1 ~ 999999

ZZ: Base quantity = 00 ~ 99

Any PLU code should already be defined (JOB#1200) when its base quantity is programmed.

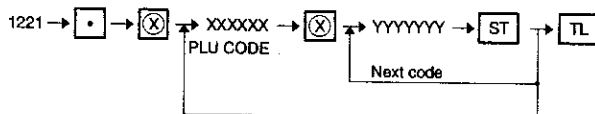
[JOB#1220]**PROGRAMMING OF PLUS STOCK (ADD)**

XXXXXX: PLU code = 1 ~ 999999

YYYYYYY: Stock value = 1 ~ 9999999

The stock value is max. 7 digits. The stock value entered is added to the PLU stock counter.

MRS = 0.000

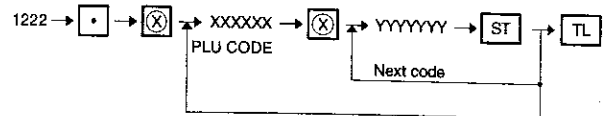
[JOB#1221]**PROGRAMMING OF PLU STOCK (SUB)**

XXXXXX: PLU code = 1 ~ 999999

YYYYYYY: Stock value = 1 ~ 9999999

The stock value is max. 7 digits. The stock value entered is subtracted from the PLU stock counter.

MRS = 0.000

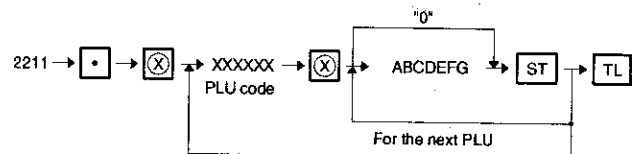
[JOB#1222]**PROGRAMMING OF PLU STOCK (OVERWRITE)**

XXXXXX: PLU code = 1 ~ 999999

YYYYYYY: Stock value = 1 ~ 9999999

The stock value is max. 7 digits. The stock value entered is overrited to the PLU stock counter.

MRS = 0.000

[JOB#2211]**PLU TAX STATUS PROGRAMMING**

XXXXXX: PLU code = 1 ~ 999999

A: Sign- = 1

Sign+ = 0

B: Taxable 6 = 1

Non-taxable 6 = 0

C: Taxable 5 = 1

Non-taxable 5 = 0

D: Taxable 4 = 1

Non-taxable 4 = 0

E: Taxable 3 = 1

Non-taxable 3 = 0

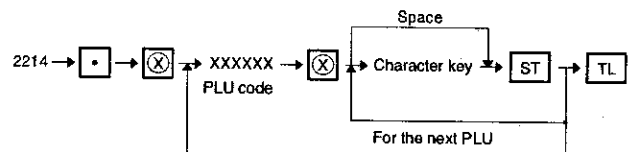
F: Taxable 2 = 1

Non-taxable 2 = 0

G: Taxable 1 = 1

Non-taxable 1 = 0

MRS = 000000

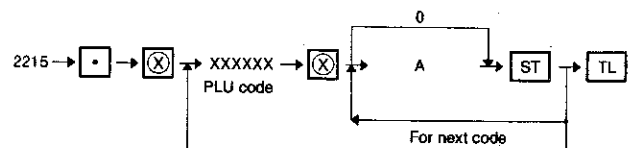
[JOB#2214]**PLU TEXT PROGRAMMING**

XXXXXX: PLU CODE = 1 ~ 999999

Characters can be entered by using alphabetic keys or numeric keys. Please refer to section 3.

UP TO 8 (OR 16) CHARACTERS CAN BE PROGRAMMED.

MRS = PLXXXXXX

[JOB#2215]**COMMISSION GROUP PROGRAMMING**

XXXXXX: PLU code = 1 ~ 999999

A: Group No. = 0 ~ 3

⑤ [JOB#2217]

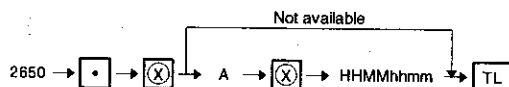
PLU LEVEL PROGRAMMING



X: PLU level No. = 1 ~ 3
 YYYYYY: Start PLU code = 1 ~ 999999
 ZZZZZZ: End PLU code = 1 ~ 999999
 MRS = L1: 000001 ~ 000080
 L2: 000081 ~ 000160
 L3: 000161 ~ 000240

⑤ [JOB#2650]

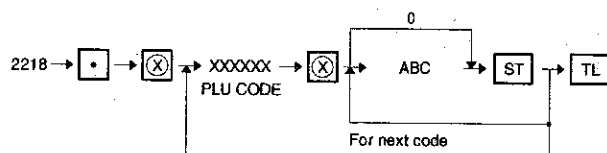
TIME OF AUTOMATIC PLU PRICE LEVEL



A: Price level No. = 1 ~ 3
 HHHH: Start time = 0000 ~ 2359
 hhmm: End time = 0000 ~ 2359
 MRS = Not available

[JOB#2218]

PRINT STATION PROGRAMMING



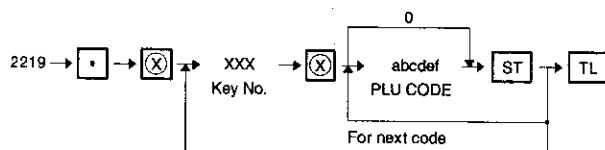
XXXXXX: PLU code = 1 ~ 999999
 A: KP1 No. of inline = 1~9
 No output = 0
 B: KP2 No. of inline = 1~9
 No output = 0

C:	Printing on receipt	2218-C
	No	0
	Yes	1

MRS = 001

[JOB#2219]

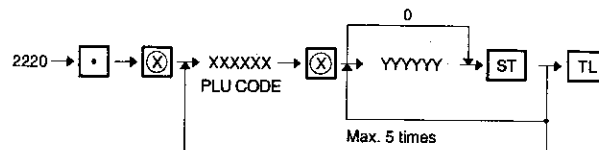
PLU CODE DEFINITION FOR DIRECT PLU KEYS



PLU code is assigned to the key No. which has been programmed in job#951 programming.
 abcdef: PLU code

[JOB#2220]

LINKED PLU PROGRAMMING



XXXXXX: PLU code = 1 ~ 999999
 YYYYYY: PLU code = 1 ~ 999999

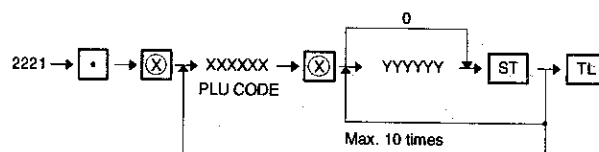
When the "ST" key is depressed without entering any number in (YYYYYY), there is no link.

PLU code should already be defined when they are used in programming here.

MRS = 0

[JOB#2221]

SET PLU PROGRAMMING



XXXXXX: PLU code = 1 ~ 999999
 YYYYYY: PLU code = 1 ~ 999999

When the "ST" key is depressed without entering any number in (YYYYYY), no set is assigned.

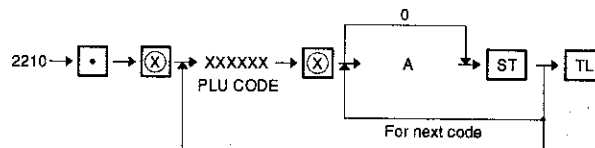
The set PLU code (XXXXXX) can not contain the same PLU code in (YYYYYY).

PLU code must already be defined when it is used in programming here.

MRS = 0

⑤ [JOB#2210]

CONDIMENT TYPE PLU PROGRAMMING



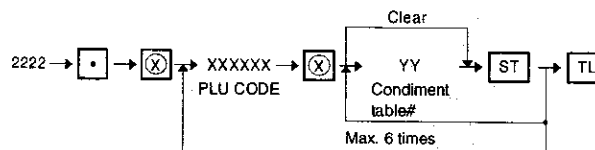
XXXXXX: PLU code = 1 ~ 999999

A:	Condiment type	A
	No	0
	Yes	1

MRS = 0

⑤ [JOB#2222]

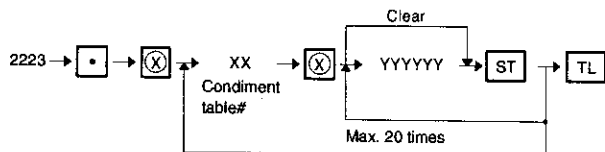
CONDIMENT TABLE NO.



XXXXXX: PLU code = 1 ~ 999999
 YY: Condiment table # = 1 ~ 99

MRS = 00

⑤ [JOB#2223] CONDIMENT TABLE

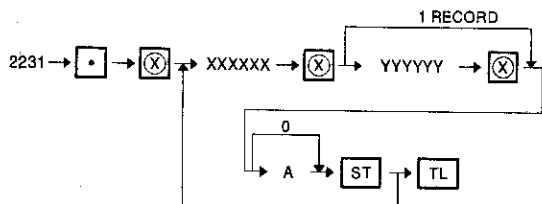


XX: Condiment table # = 1 ~ 99

YYYYYY: PLU code = 1 ~ 999999

MRS = 000000

⑤ [JOB#2231] CONDIMENT TYPE PLU PROGRAMMING (range)



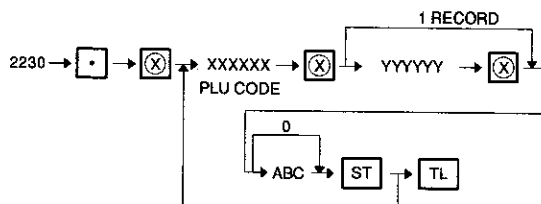
XXXXXX: Start PLU code = 1 ~ 9999

YYYYYY: End PLU code = 1 ~ 9999

A: Condiment type Yes/No 1/0

[JOB#2230]

PLU CODE PROGRAMMING (range)



XXXXXX: Start PLU code = 1 ~ 9999

YYYYYY: End PLU code = 1 ~ 9999

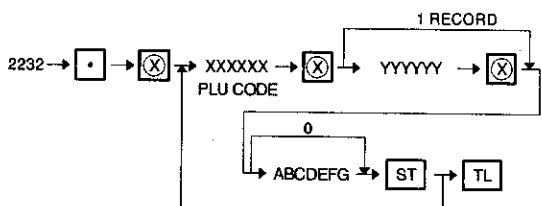
AB: Dept. code = 1 to 50

C: Amount entry type

Delete/open and preset/preset/open/inhibited = 4/3/2/1/0

[JOB#2232]

PLU TAX STATUS PROGRAMMING (RANGE)



XXXXXX: Start PLU code = 1 ~ 999999

YYYYYY: End PLU code = 1 ~ 999999

A: Sign +/- = 1/0

B: Taxable 6 = 1

Non-taxable = 0

C: Taxable 5 = 1

Non-taxable 5 = 0

D: Taxable 4 = 1

Non-taxable 4 = 0

E: Taxable 3 = 1

Non-taxable 3 = 0

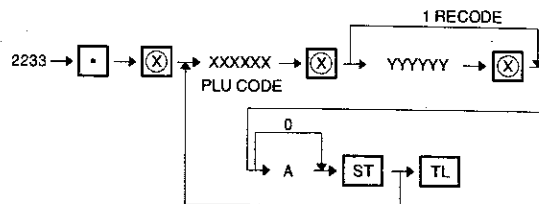
F: Taxable 2 = 1

Non-taxable 2 = 0

G: Taxable 1 = 1

Non-taxable 1 = 0

[JOB#2233] PRINT STATION PROGRAMMING (RANGE)



XXXXXX: Start PLU code = 1 ~ 999999

YYYYYY: End PLU code = 1 ~ 999999

A: KP1 No. of inline = 1~9

No output = 0

B: KP2 No. of inline = 1~9

No output = 0

C:	Printing on receipt	2233-C
	No	0
	Yes	1

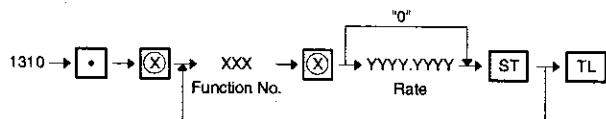
⑤ [JOB#2200]

LEAD THROUGH PROGRAMMING FOR PLU

Key sequence	Display	Guidance No.	Content	Note
2200 → [.] → [X]	ENTER PLU#	10		
→ XXXXXX → [X]	DEPT & TYPE	11		
→ XXX → [ST]	PRICE	2	Job#1200	
→ XXXXXX → [ST]	PRICE	2	Job#1210	P2 (lamp)
→ XXXXXX → [ST]	PRICE	2	Job#1210	P3 (lamp)
→ XXXXXX → [ST]	BASE Q'TY	12	Job#1210	
→ XX → [ST]	PROGRAMMING	3	Job#1210	
→ X → [ST]	SIGN & TAX	13	Job#2210	
→ XXXXXX → [ST]	TEXT	6	Job#2211	
→ (Chara.) → [ST]	COMMISSION	7	Job#2214	
→ X → [ST]	PRINT STAT.	9	Job#2215	
→ XXX → [ST]	DEPT & TYPE	11	Job#2218	
(PLU # is able to be entered by the operation of "XXXXXX [X] ")				
→ [TL]				

[JOB#1310]

RATE PROGRAMMING



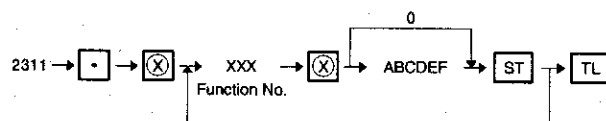
XXX: Function No.
 YYYY.YYYY: Rate

Function No.	Function	Entry range	Remarks
1	(-)1	0 to 999.99	(-) unit price
2	(-)2		
3	(-)3		
4	(-)4		
5	%1	0 to 100.00	% -rate
6	%2		
7	%3		
8	%4		
61	Exchange 1	0 to 9999.9999	Rate
62	Exchange 2		
63	Exchange 3		
64	Exchange 4		
65	Exchange 5		
66	Exchange 6		
67	Exchange 7		
68	Exchange 8		
69	Exchange 9		
97	Service charge	0 to 100.00	Rate
85	Commission 1	0 to 999.99	Rate
86	Commission 2		
87	Commission 3		

MRS = 0

[JOB#2311]

MISC KEY PROGRAMMING 1



XXX : Function No.

Function No.	Function
1	(-)1
2	(-)2
3	(-)3
4	(-)4
5	%1
6	%2
7	%3
8	%4

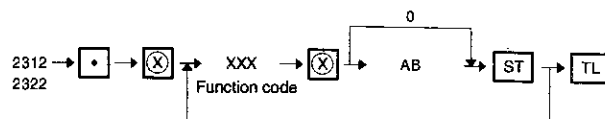
A: Sign- = 1
 Sign+ = 0

B, C, D, E, F: Not used (Fixed at "00000")

MRS = 00000000

[JOB#2312, 2322]

HALO, TABLE NO.



XXX: Function No.
 A: Mantissa (0 to 9)
 B: Exponent (0 to 8)

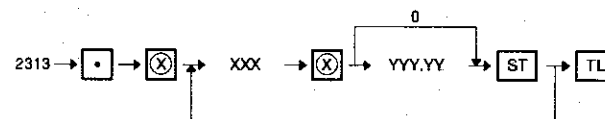
JOB#	Func. No.	Function	Remarks
2312	1	(-) 1	Item B is specificable within the range from 0 to 7.
	2	(-) 2	
	3	(-) 3	
	4	(-) 4	
	43	RA	Item B is specificable within the range from 0 to 8.
	44	PO	
	48	DEPO (+)	
	49	DEPO (-)	
	94	CASH TIP	Item B is specificable within the range from 0 to 7.
	95	NON CASH TIP	
2322	50	CA1	Item B can be specified within range from 0 to 8.
	51	CA2	
	52	CHK	
	53	CR1	
	54	CR2	
	55	CR3	
	56	CR4	
	57	CR5	
	58	CR6	
	59	CR7	
	60	CR8	
	79	H. T	

Entry range, system: $A \times 10^B$

MRS = 17 for the functions (-) and tax an
 = 18 for other functions than (-) and tax

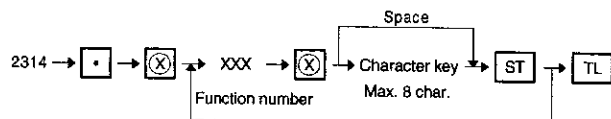
[JOB#2313]

MISCELLANEOUS KEY PROGRAMMING (% HALO)



XXX: Function No.
 YYY.YY: % HALO

Function No.	Function	Remarks
5	%1	
6	%2	
7	%3	
8	%4	

[JOB#2314]**TEXT PROGRAMMING FOR MISC KEYS**

XXX: FUNCTION CODE

Characters can be entered by using character keys or numeric keys. the key entry sequence for entering one character by numeric keys is as follows:

XXX → 00 key XXX: CHARACTER CODE (3DIGITS)

Please refer to section 3

FUNCTION LIST

F-No.	FUNCTION	DEFAULT TEXT
1	(-) 1	(-) 1
2	(-) 2	(-) 2
3	(-) 3	(-) 3
4	(-) 4	(-) 4
5	%1	%1
6	%2	%2
7	%3	%3
8	%4	%4
9	SET PLU (-)	SET PLU -
10	DIFFER	DIFFER
11	TAXABLE1 ST	TAX1 ST
12	TAXABLE2 ST	TAX2 ST
13	TAXABLE3 ST	TAX3 ST
14	TAXABLE4 ST	TAX4 ST
15	TAXABLE5 ST	TAX5 ST
16	TAXABLE6 ST	TAX6 ST
17	VAT/TAX1	VAT 1
18	VAT/TAX2	VAT 2
19	VAT/TAX3	VAT 3
20	VAT/TAX4	VAT 4
21	VAT/TAX5	VAT 5
22	VAT/TAX6	VAT 6
23	NET1	NET1
23	NET2	NET2
25	COUPON PLU	CP PLU
26	REFUND	REFUND
27	VOID	∞
28	VOID MODE	∞ MODE
29	MANAGER VOID	MRG ∞
30	SBTL VOID	SBTL ∞
31	HASH VOID	HASH ∞
32	HASH REFUND	HASH RF
33	NONTURNOVER SALES ∞	NOTURN ∞
34	NONTURNOVER SALES RF	NOTURNRF
35	VAT SHIFT	VAT SFT
36	VAT/TAX DELETE	TAX DELE
37	VP COUNTER	VP CNT
38	BILL COUNTER	BILL CNT
39	NO SALE	NO SALE
40	GUEST CHECK COUNTER	G. C. CNT
41	PBAL	***PBAL

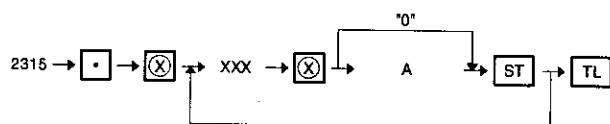
F-No.	FUNCTION	DEFAULT TEXT
42	NBAL	***NBAL
43	RA	***RA
44	PO	***PO
45	SCM (+)	SCM (+)
46	SCM (-)	SCM (-)
47	CHECK CASHING	CA/CHK
48	DEPOSIT	DEPOSIT
49	DEPOSIT (-)	DEPO. (-)
50	CASH	CASH
51	CASH2	CASH2
52	CHECK	CHECK
53	CREDIT1	CREDIT1
54	CREDIT2	CREDIT2
55	CREDIT3	CREDIT3
56	CREDIT4	CREDIT4
57	CREDIT5	CREDIT5
58	CREDIT6	CREDIT6
59	CREDIT7	CREDIT7
60	CREDIT8	CREDIT8
61	EXCHANGE1	EXCH1
62	EXCHANGE2	EXCH2
63	EXCHANGE3	EXCH3
64	EXCHANGE4	EXCH4
65	EXCHANGE5	EXCH5
66	EXCHANGE6	EXCH6
67	EXCHANGE7	EXCH7
68	EXCHANGE8	EXCH8
69	EXCHANGE9	EXCH9
70	EXCHANGE1 IS	EXCH1 IS
71	EXCHANGE2 IS	EXCH2 IS
72	EXCHANGE3 IS	EXCH3 IS
73	EXCHANGE4 IS	EXCH4 IS
74	EXCHANGE5 IS	EXCH5 IS
75	EXCHANGE6 IS	EXCH6 IS
76	EXCHANGE7 IS	EXCH7 IS
77	EXCHANGE8 IS	EXCH8 IS
78	EXCHANGE9 IS	EXCH9 IS
79	HOTEL TRANSFER	H. TRANS.
80	CASH IN DRAWER	****CID
81	CASH/CHECK IS	CA/CH IS
82	CASH/CHECK IN DRAWER	CA/CH ID
83	CHECK CHANGE	CHK/CG
84	GUEST	GUEST
85	COMMISSION SALE1	COM. SAL1
86	COMMISSION SALE2	COM. SAL2
87	COMMISSION SALE3	COM. SAL3
88	NON COMMISSION SALE	NON COM.
89	VIP SALE	VIP SALE
90	ORDER TOTAL	ORDER TL
91	PAID TOTAL	PAID TL
92	TRANS OUT	TRAN. OUT
93	TRANS IN	TRAN. IN
94	CASH TIP	CASH TIP
95	NON CASH TIP	NOCA TIP
96	TIP PAID	TIP PAID
97	SERVICE CHARGE	SER. CHRG

F-No.	FUNCTION	DEFAULT TEXT
98	DOMESTIC CURRENCY1	DOM. CUR1
99	DOMESTIC CURRENCY2	DOM. CUR2
100	DOMESTIC CURRENCY3	DOM. CUR3
101	DOMESTIC CURRENCY4	DOM. CUR4
102	DOMESTIC CURRENCY5	DOM. CUR5
103	DOMESTIC CURRENCY6	DOM. CUR6
104	DOMESTIC CURRENCY7	DOM. CUR7
105	DOMESTIC CURRENCY8	DOM. CUR8
106	DOMESTIC CURRENCY9	DOM. CUR9
107	NONTURNOVER TTL1	*NT TL1
108	NONTURNOVER TTL2	*NT TL2
109	NONTURNOVER TTL3	*NT TL3
110	CHECK IN DRAWER	*CH ID
111	WORKING TIME	WK TIME
112	(+) DEPT TOTAL	*DEPT TL
113	(-) DEPT TOTAL	DEPT (-)
114	HASH (+) DEPT TOTAL	*HASH TL
115	HASH (-) DEPT TOTAL	HASH (-)
116	NET 1(TAXABLE1-VAT1)	NET1
117	NET 2(TAXABLE2-VAT2)	NET2
118	NET 3(TAXABLE3-VAT3)	NET3
119	NET 4(TAXABLE4-VAT4)	NET4
120	NET 5(TAXABLE5-VAT5)	NET5
121	NET 6(TAXABLE6-VAT6)	NET6
122	SUBTOTAL	SUBTOTAL
123	MDS SBTTL	MDSE ST
124	TOTAL	***TOTAL
125	NON-TURNOVER ST	NON-TURN
126	CHANGE	CHANGE
127	ENGLISH CHECK PRINT	CHECK PR
128	DUE	DUE
129	TIP DUE	TIP DUE
130	BALANCE	BALANCE
131	ITEMS	ITEMS
132	PLU ST	PLU ST
133	COPY RCPT TITLE	COPY
134	G. C. COPY TITLE	G. C COPY
135	B. T. TITLE	B.T.
136	GLU READING TITLE	INTRMED
137	BILL ON RECEIPT TITLE	BILL
138	CUMULATED BILL	C. BILL
139	VIP SALE TITLE	VIP SALE
140	SLIP PRINT MESSAGE	SLIP PR.
141	SLIP NEXT PAGE	NEXT. P
142	AVERAGE	AVE.
143	GROUP1	GROUP01
144	GROUP2	GROUP02
145	GROUP3	GROUP03
146	GROUP4	GROUP04
147	GROUP5	GROUP05
148	GROUP6	GROUP06
149	GROUP7	GROUP07
150	GROUP8	GROUP08
151	GROUP9	GROUP09
152	SECOND PRICE	2ND PRIC
153	THIRD PRICE	3RD PRIC

F-No.	FUNCTION	DEFAULT TEXT
154	CCD	CCD
155	CCD DIFFER	CCD DIF.
156	CCD DIFFER TOTAL	DIF. TL
157	ORDER TL-PAID TL	O-P
158	COMMISSION AMOUNT1	COM. AMT1
159	COMMISSION AMOUNT2	COM. AMT2
160	COMMISSION AMOUNT3	COM. AMT3
161	COMMISSION AMOUNT TTL	COM. TTL
162	BILL BALANCE	BILL BAL
163	FREE GLU	FREE GLU
164	OLD BALANCE	OLD BAL.
165	NEW BALANCE	BALANCE
166	SCM TOTAL	SCM TTL
167	TURNOVER PER TABLE	T. TABLE
168	TURNOVER PER GUEST	T. GUEST
169	TURNOVER PER BILL	T. BILL
170	ITEM PER GUEST	I. GUEST
171	ITEM PER BILL	I. BILL
172	AVE. PRICE PER ITEM	AVE. ITEM
173	DEPT. REPO. TITLE	DEPT
174	GROUP REPO. TITLE	GROUP
175	PLU REPO. TITLE	PLU
176	SET PLU REPO. TITLE	SET PLU
177	STOCK REPO. TITLE	STOCK
178	TRANS. REPO. TITLE	TRANS.
179	CID REPO. TITLE	TL-ID
180	COM. SALES REPO. TITLE	SALES
181	VAT/TAX REPORT TITLE	VAT/TAX
182	CHIEF REPORT TITLE	CHIEF
183	CLERK REPO. TITLE	CLERK
184	HOURLY REPO. TITLE	HOURLY
185	DAILY NET REPO.	DAILY
186	GLU/PBLU REPORT TITLE	GLU
187	BALANCE REPORT TITLE	BALANCE
188	TOTAL TAX	TTL TAX
189	NET WITHOUT TAX	NET
190	C. BILL GENERAL TEXT (LEFT HALF)	ALL FOOD
191	C. BILL GENERAL TEXT (RIGHT HALF)	S&DRINKS
192	TOWN NAME 1	TOWNNAME
193	TOWN NAME 2	TOWNNAME
194	CHECK2	CHECK2
195	CHECK3	CHECK3
196	CHECK4	CHECK4
197	CASH TRANSFER	TRANSFER
198	B. S. TITLE	B. S.
199	TEXT IN FRONT OF GLU	GLU#
200	TEXT FOR BILL NO. (FOR GERMANY)	BILL NO.
201	TEXT FOR TABLE (FOR GERMANY)	TABLE NO.
202	TEXT FOR NO. OF GUEST (FOR GERMANY)	GUEST NO.

[JOB#2315]

MISC KEY PROGRAMMING (Item %/Subtotal %)



XXX: Function No.

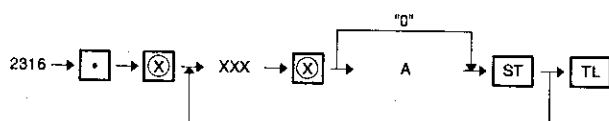
A: Item %/Subtotal % = 1/0

MRS. 0

Function No.	Function	Remarks
5	%1	
6	%2	
7	%3	
8	%4	

[JOB#2316]

MISC KEY PROGRAMMING (item ⊖/SBTL ⊖)



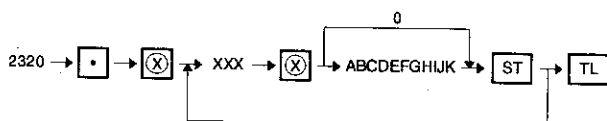
XXX: Function No.

A: Item (store coupon) ⊖/SBTL (Vender coupon) ⊖=1/0

Function No.	Function	Remarks
1	(→) 1	
2	(→) 2	
3	(→) 3	
4	(→) 4	

[JOB#2320]

MEDIA KEY PROGRAMMING



XXX: Function No.

Function No.	Function	A	B	C	D	E	F	G	H	I	J	K
50	CA1	○	○	○	×	○	○	○	○	○	○	○
51	CA2	○	○	○	×	○	○	○	○	○	○	○
52	CHK	○	○	○	○	○	○	○	○	○	○	○
53	CR1	○	○	○	○	○	○	○	○	○	○	○
54	CR2	○	○	○	○	○	○	○	○	○	○	○
55	CR3	○	○	○	○	○	○	○	○	○	○	○
56	CR4	○	○	○	○	○	○	○	○	○	○	○
57	CR5	○	○	○	○	○	○	○	○	○	○	○
58	CR6	○	○	○	○	○	○	○	○	○	○	○
59	CR7	○	○	○	○	○	○	○	○	○	○	○
60	CR8	○	○	○	○	○	○	○	○	○	○	○
79	H. T.	○	○	○	×	○	○	○	○	○	○	×

* Items marked with on (○) are programmable.

- A: Slip print Compulsory/non-compulsory 1/0
 B: Footer print Yes/No. 1/0
 C: Non-add code entry compulsory/non-compulsory 1/0
 D: Change due Disable/Enable 1/0
 E: VP compulsory/non-compulsory 1/0
 F: Not used (Fixed at "0")

G: Not used (Fixed at "0")

H: Not used (Fixed at "0")

I: Not used (Fixed at "0")

J: Drawer opening

K: Entry of amount

tendered

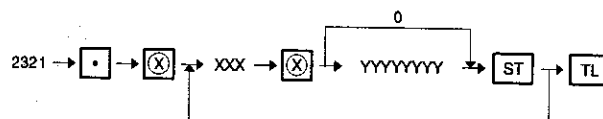
No./Yes

compulsory/noncompulsory 1/0
(Cash, Check)compulsory/inhibit 1/0
(CR1 to 8)

MRS = 0

[JOB#2321]

MEDIA KEY FUNCTION PROGRAM (AMOUNT HALO)



XXX:

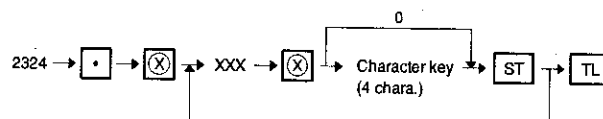
Function No.

Func. No.	Function	Entry range	Remarks
80	CID (Sentinel)	0 to 9999999.99	
83	CHK CHANGE	0 to 999999.99	
47	CA/CHK	0 to 999999.99	

YYYYYYYY: Limitation amount

[JOB#2324]

Currency descriptor for Euro check



XXX: Function code

Function No.	Function	Remarks
52	Check	For Euro check
61	Exchange1	
62	Exchange2	
63	Exchange3	
64	Exchange4	
65	Exchange5	
66	Exchange6	
67	Exchange7	
68	Exchange8	
69	Exchange9	

Characters can be entered by using character keys or numeric keys.
 the key entry sequence for entering one character by numeric keys
 is as follows:

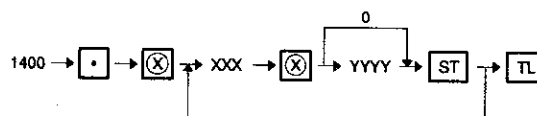
XXX → 00 key XXX: CHARACTER CODE (3DIGITS)

Please refer to section 3

MRS = "SPACE"

[JOB#1400]

CLERK CODE DEFINITION



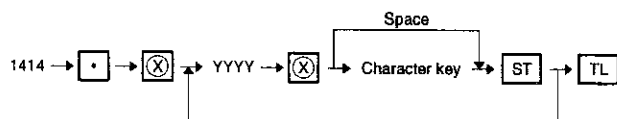
XXX: Clerk No. = 1 ~ 255

YYYY: Clerk code = 0000 ~ 9999

MRS = 0001;1, 0002;2, 0003;3, 0004;4, 0005;5, 0006, 6

[JOB#1414]

CLERK NAME PROGRAMMING



YYYY: Clerk code = 0001 ~ 9999

Characters can be entered by using character keys or numeric keys.
The key entry sequence for entering one character by numeric keys is as follows:

XXX → 00 KEY XXX: Character code (3 digits)

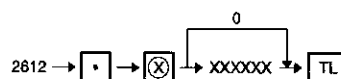
Please refer to section 3.

Max. 8 characters

Mrs = 'Clerk00X' X = 1 ~ 6

[JOB#2612]

MACHINE NUMBER SETTING

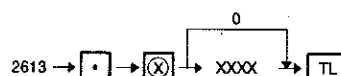


XXXXXX: Machine number (0 ~ 999999)

MRS = 0

[JOB#2613]

CONSECUTIVE NUMBER SETTING

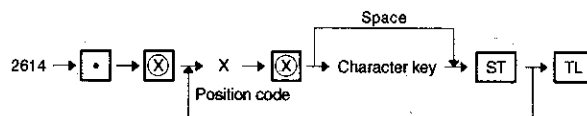


XXXX: Consecutive number (0000 ~ 9999)

MRS = 0000

[JOB#2614]

LOGO TEXT PROGRAMMING



X: 1 ~ 6	1	(21 char.)
	2	(21 char.)
	3	(21 char.)
	4	(21 char.)
	5	(21 char.)
	6	(21 char.)

Character can be entered by using character keys or numeric keys.
The key entry sequence for entering one character by numeric keys is as follows:

XXX → 00 Key XXX: Character code (3 digits)

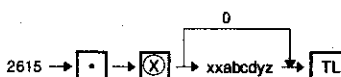
Please refer to section 3.

MRS =

SHARP
IS
THE BEST
YOUR
RECEIPT
THANK YOU

[JOB#2615]

PROGRAMMING OF TRAY ST LINE FEEDS AND NO. OF TIMES OF VALIDATION PRINTING.



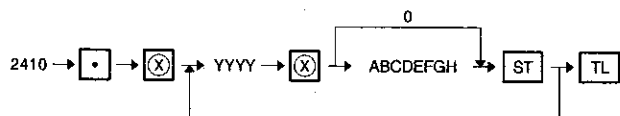
XX:	Minimum length for bill on receipt	= 0 ~ 30
a, b:	Initial slip feed line	= 0 ~ 64
c, d:	Slip print max line No.	= 0 ~ 99
Y:	No. of times of validation printing	= 0 ~ 9
Z (For Germany):	Left margin shift	= 0 ~ 9
Z (For other country):	Not used (Fixed at "0")	

It can be programmed in the SRV mode whether or not to validate the limits to slip initial feed, the No. of times of slip printing, and number of times of validation printing.

MRS = 009910

[JOB#2410]

CLERK PROGRAMMING



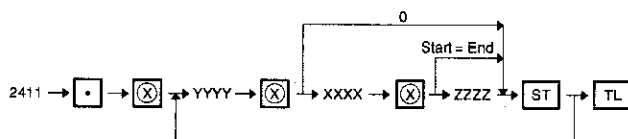
YYYY: Clerk code = 0001~9999

A: Supervisor clerk	Yes/No	= 1/0
B: VIP sale	Disable/Enable	= 1/0
C: GLU/PBLU	Compulsory/noncompulsory	= 1/0
D: G. C. copy	Disable/Enable	= 1/0
E: VAT shift	State/Not	= 1/0
F: Price level	Price 3/Price 2/price 1	= 2/1/0
G: Working time control	Yes/No	= 1/0
H: Drawer No. /Not open		= 1 to 4/0

MRS = 000001

[JOB#2411]

CLERK TABLE NO. (GLU/PBLU) LINK



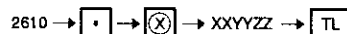
YYYY: Clerk code = 0001 ~ 9999

XXXX: Start code = 1 ~ 9999

ZZZZ: End code = 1 ~ 9999

[JOB#2610]

DATE SETTING



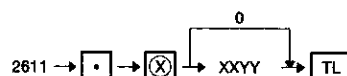
XXYYZZ: Date (Year-Month-Day/Day-Month-Year/Month-Day-Year)

* The date entry format complies with the applicable SRV-mode programming.

MRS = 010100

[JOB#2611]

TIME SETTING



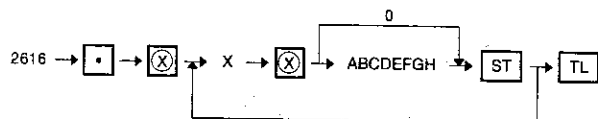
XX: Hour (00 ~ 23)

YY: Minute (00 ~ 59)

MRS = 0

S [JOB#2616]

OPTIONAL FEATURE



X : 1

MRS = 00000000

- | | | |
|-------------------------------------|--------------------------|-----|
| A: OP X/Z report | Disable/Enable | 1/0 |
| B: PO operation in REG mode | Disable/Enable | 1/0 |
| C: Not used (Fixed at "0") | | |
| D: "RFND" key entry on REG mode | Disable/Enable | 1/0 |
| E: Direct void function in REG mode | Disable/Enable | 1/0 |
| F: Indirect void in REG mode | Disable/Enable | 1/0 |
| G: Subtotal void in REG mode | Disable/Enable | 1/0 |
| H: Refund VP | Compulsory/Noncompulsory | 1/0 |

X : 2

MRS = 00000000

- | | | |
|--|--------------------------|-----|
| A: The first direct void | Disable/Enable | 1/0 |
| Ⓢ B: PLU level shift system | Manual/Auto | 1/0 |
| Ⓢ C: PLU level shift system | MGR/MGR & REG | 1/0 |
| D: Printing of the number of purchases | Yes/No | 1/0 |
| E: Time print | No./Yes | 1/0 |
| F: Journal select/Full print | | 1/0 |
| G: Item VP | Disable/Enable | 1/0 |
| H: ⊖ VP | Compulsory/noncompulsory | 1/0 |

X : 3

MRS = 00000000

- | | | |
|------------------------------------|--------|-----|
| A: Not used (Fixed at "0") | | |
| B: Zero skip in clerk report | No/Yes | 1/0 |
| C: Not used (Fixed at "0") | | |
| D: Zero skip in transaction report | No/Yes | 1/0 |
| E: Zero skip in DEPT. report | No/Yes | 1/0 |
| F: Zero skip in PLU report | No/Yes | 1/0 |
| G: Zero skip in Hourly report | No/Yes | 1/0 |
| H: Zero skip in Daily net report | No/Yes | 1/0 |

X : 4

MRS = 00000000

- | | | |
|-----------------------------------|--------|-----|
| A: Not used (Fixed at "0") | | |
| B: Not used (Fixed at "0") | | |
| C: VAT/TAX amount printing on R/J | No/Yes | 1/0 |
| D: Taxable amount printing on R/J | No/Yes | 1/0 |
| E: Net amount printing on R/J | No/Yes | 1/0 |
| F: Not used (Fixed at "0") | | |
| G: Not used (Fixed at "0") | | |

- Ⓢ H: When PLU level system is "AUTO" (x: 2 B=0),
PLU level returns to level 1 by one receipt/by one item 1/0

X : 5

MRS = 00000000

- | | | |
|---|----------------------------|-----|
| A: Intermediate GLU reading in REG mode | Disable/Enable | 1/0 |
| B: Vlp sales in REG mode | Disable/Enable | 1/0 |
| C: Double receipt header | 1 line/normal | 1/0 |
| D: VAT shift system | By shift key/by clerk | 1/0 |
| E: PLU price shift system | By clerk/by shift key | 1/0 |
| F: PLU price shift system | MGR/MGR&REG | 1/0 |
| G: PLU price shift system | Manual/Auto | 1/0 |
| H: Return timing at "Auto" (x:5 G=0) | By one receipt/by one item | 1/0 |

X : 6

MRS = 00000000

- | | | |
|------------------------------------|--------|-----|
| A: Vat/Tax amount printing on Bill | No/Yes | 1/0 |
| B: Taxable amount printing on Bill | No/Yes | 1/0 |
| C: Net amount printing on Bill | No/Yes | 1/0 |
| Ⓢ D: Printing of time on Bill | Yes/No | 1/0 |
| E: Bill printing on slip | No/Yes | 1/0 |
| F: Bill printing on receipt | No/Yes | 1/0 |
| G: Intermediate reading on slip | No/Yes | 1/0 |
| H: Intermediate reading on receipt | No/Yes | 1/0 |

Ⓢ x: 7 (Not used)

MRS=00000000

Ⓢ x: 8

- | | | |
|--|--------|-----|
| A: GLU finalize after ordering allowed | No/Yes | 1/0 |
| B: Non turnover including VAT | Yes/No | 1/0 |
| C: Updating of sales quantity by VIP sales | Yes/No | 1/0 |
| D: Not used (Fixed at "0") | | |
| E: Not used (Fixed at "0") | | |
| F: Not used (Fixed at "0") | | |
| G: Not used (Fixed at "0") | | |
| H: Not used (Fixed at "0") | | |

MRS=00000000

Ⓢ x: 9

- | | | |
|-------------------------------------|------------|-----|
| A: Not used (Fixed at "0") | | |
| B: Not used (Fixed at "0") | | |
| C: Not used (Fixed at "0") | | |
| D: Not used (Fixed at "0") | | |
| E: Skip/Print of department report | Skip/Print | 1/0 |
| F: Skip/Print of transaction report | Skip/Print | 1/0 |
| G: Skip/Print of tax sale report | Skip/Print | 1/0 |
| H: Skip/Print of CID report | Skip/Print | 1/0 |

MRS=00000000

[JOB#2617]

PROGRAMMING OF THE TIME INTERVAL FOR DRAWER ALARM

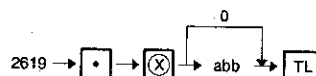


XXX: 0 ~ 255 sec

MRS = 000

[JOB#2619]

HOURLY REPORT (Starting time)

a: Memory format: 15 minutes (12 hours)/30 minutes (24 hours)
= 1/0

bb: Starting time (hour): 00 ~ 23

ex)

Case 1.



X1 Hourly report (#160) (15 min, start time = 7)

#160
7:00
(DATA)
7:15
(DATA)
7:30
(DATA)
7:45
(DATA)
SUBTOTAL
(DATA)
18:45
(DATA)
SUBTOTAL
(DATA)
:
(DATA)

12 hours started from 7:00

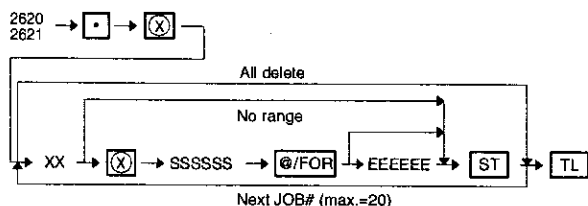
Data out of range (19:00 to 6:59)

[JOB#2620, 2621]

STACK REPORT 1 and 2

JOB#2620: STACK REPORT 1

JOB#2621: STACK REPORT 2



XX: JOB#
 SSSSSS: Start code
 EEEEE: End code

JOB#	Report name	Type
00	General	
10	DEPT./Group	
13	DEPT. All group	
20	PLU	RANGE
24	PLU stock	RANGE
30	Transaction	
31	CID	
32	Commission sale	
33	Tax	
40	All clerk	
60	Hourly	RANGE (only X report)
70	Daily net	
80	GLU	RANGE
01	Balance	
05	System general	
15	System DEPT.	
18	System All group	
25	System PLU	RANGE
29	System PLU stock	RANGE
35	System Transaction	
36	System CID	
37	System commission sale	
38	System tax	
45	System All clerk	
65	System Hourly	RANGE
75	System Daily net	

[**]

Max 70 steps are programmable. "1 step" means the memory size used for one no-range type JOB#.

The range type JOB# means "8 steps".

For example)

The memory size for programming JOB#00, 20 and 50 is 10 steps. (ie. 1 step for JOB#00, 8 step for JOB#20, and 1 step for JOB#50.)

[JOB#2630, 2631, 2632]

SECRET CODE PROGRAMMING



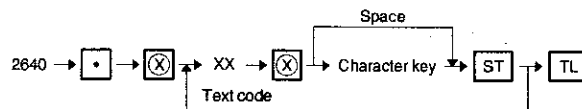
#2630: PGM1 mode
 #2631: X1/Z1 mode
 #2632: X2/Z2 mode and AUTO key programming

* If "0" is entered, "compulsory secret code entry" is canceled.

MRS = 0

[JOB#2640]

FREE TEXT PROGRAMMING



XX: Position code = 1~99

1 Text: Max. 21 characters

Characters can be entered by using character keys or numeric keys. the key entry sequence for entering one character by numeric keys is as follows:

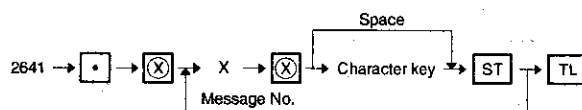
XXX → 00 key XXX: Character code (3 digits)

Please refer to section 3

MRS = "TEXT01"
 "TEXT02d"

[JOB#2641]

MESSAGE TEXT PROGRAMMING



X: Message No. = 1~50

Message No.	Description	MRS
1	Registration error	ENTRY ERROR
2	Misoperation error	MISOPERATION
3	Desired code is not programmed yet.	NO RECORD
4	Paper empty	PAPER EMPTY
5	Secret code error	SECRET CODE
6	Code is not free	NOT FREE
7	Memory is full	MEMORY FULL
8	Insert slip paper	INSERT SLIP
9	The clerk has entered a code for which he or she is not authorized.	NO AUTHORITY
10	Stock is empty	OUT OF STOCK
11	Compulsory of pushing the SBTL key	SBTL COMPUL.
12	Compulsory of tendering	TEND COMPUL.
13	Compulsory of PB entry	PB COMPUL.
14	Compulsory of SCM entry	SCM COMPUL.
15	Compulsory of guest# entry	GUEST COMPUL.
16	(reserved)	
17	IRC non reset error	NON RESET
18	Retry message	RETRY ?
19	After Z1 report	ENTRY ERR Z
20	KP off line	OFF LINE
21	KP motor lock	MOTOR LOCK
22	Overlaped clerk error	CLK ERROR
23	(reserved)	
24	Clerk resetting over error	ENTRY ERR CK
25	Set slip paper again	SLIP SET
26	File type error	TYPE ERROR
27	Power off	POWER OFF
28	In line busy	IRC BUSY
29	In line error	IRC ERROR

Message No.	Description	MRS
30	Tendering compulsory error for tip	TIP ERROR
31	(reserved)	
32	The clerk key is not pushed or inserted.	NOT ASSIGNED
33	The clerk key is changed in the transaction.	NOT CHANGE
34	Overflow limitation	OVER LIMIT.
35	The open price entry is inhibited.	INH. OPEN PR
36	The unit price entry is inhibited.	INH. UNIT PR
37	The direct non-tendering finalization after previous tender entry is inhibited.	NOT NON-TEND
38	(reserved)	
39	Power-off duaring VP of Euro/French check and Slip paper feed	P-OFF IN VP
40	KP buffer full	BUFFER FULL
41	KP hard error	HARD ERROR
42	Open store	OPEN STORE
43	Close store	CLOSE STORE
44	Sending of Z data	SENDING
45	Sign on	SIGN ON
46	Master down	MASTER DOWN
47	Back up master down	BACKUP DOWN
48	Guidance for check# entry	CHECK#
49	EFT error	EFT ERROR
50	EFT break	EFT BREAK

Amessage is 12 characters

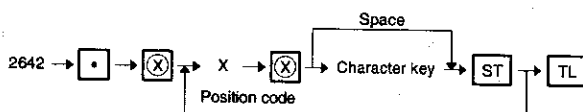
Characters can be entered by using character keys or numeric keys. the key entry sequence for entering one character by numeric keys is as follows:

XXX → 00 key XXX: Character code (3 digits)

Please refer to section 3

[JOB#2642]

VP TEXT PROGRAMMING



X: Position code = 1 to 3

Characters can be entered by using character keys or numeric keys. the key entry sequence for entering one character by numeric keys is as follows:

XXX → 00 key XXX: Character code (3 digits)

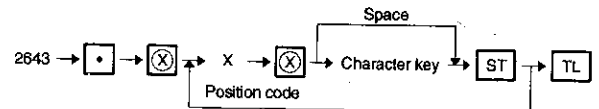
Please refer to section 3

1 Block max. 21 characters

MRS = " " "
" "
"FOR DEPOSIT ONLY "

[JOB#2643]

SLIP TEXT PROGRAMMING



X: Position code = 1 to 3

Characters can be entered by using character keys or numeric keys. the key entry sequence for entering one character by numeric keys is as follows:

XXX → 00 key XXX: Character code (3 digits)

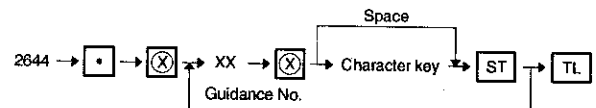
Please refer to section 3

1 Block max. 21 characters

MRS = "Space"
"Space"
"Space"

[JOB#2644]

GUIDANCE TEXT PROGRAMMING FOR LEAD THROUGH PROGRAMMING



XX: Guidance No. = 1~13

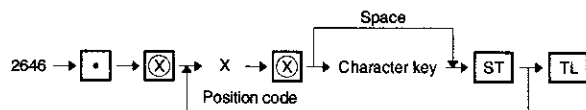
Characters can be entered by using character keys or numeric keys. the key entry sequence for entering one character by numeric keys is as follows:

XXX → 00 key XXX: Character code (3 digits)

Please refer to section 3

1 text max. 12 characters

Guidance No.	MRS
1	ENTER DEPT#
2	PRICE
3	PROGRAMMING
4	TAX
5	HALO
6	TEXT
7	COMMISSION
8	GROUP
9	PRINT STAT.
10	ENTER PLU#
11	DEPT & TYPE
12	BASE Q'TY
13	SIGN AND TAX

[JOB#2646]**PAYEE NAME FOR ENGLISH CHECK PROGRAMMING**

X: Position code = 1 to 2

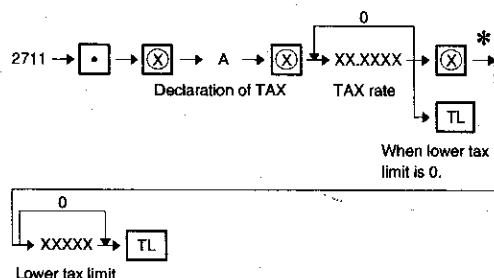
Characters can be entered by using character keys or numeric keys. the key entry sequence for entering one character by numeric keys is as follows:

XXX → 00 key XXX: Character code (3 digits)

Please refer to section 3

1 Block max. 21 characters

MRS = " " " "

[JOB#2711]**TAX RATE PROGRAMMING**

* DEPRESSION OF THE ST KEY AT FOLLOWING POINTS PERFORM A TAX TABLE DELETE OPERATION.

- | | |
|----------------------|-----|
| A: TAX 1 PROGRAMMING | = 1 |
| TAX 2 PROGRAMMING | = 2 |
| TAX 3 PROGRAMMING | = 3 |
| TAX 4 PROGRAMMING | = 4 |
| TAX 5 PROGRAMMING | = 5 |
| TAX 6 PROGRAMMING | = 6 |

%TAX RATE 0.0000 to 999.9999 %

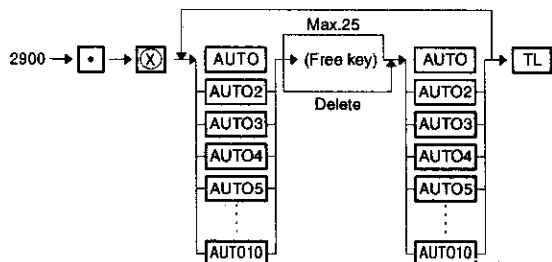
LOWER TAX LIMITATION max. 999.99

(This is invalid in VAT system.)

MRS = 0

⑤ [JOB#2900]**<CAUTION>**

(This JOB must be performed at X2/Z2 mode position.)

AUTO KEY SETTING

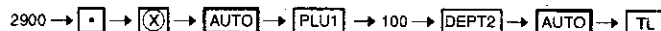
(Auto key function)

- This machine has [AUTO] key which can be programmed by the following key-sequence.
- When [AUTO] key is depressed, the machine works the same as the programmed key-sequence programmed.

<Example>

Mode switch

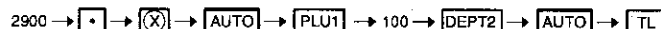
↓
(X2/Z2)



(REG)

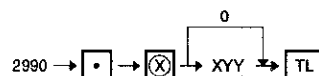
Key entry	R/J	Display	Comment
AUTO	PL000001 \$1.10	PL000001 *1*	same as PLU1 entry
		1.10	
		1 *1*	same as 1 entry
		10 *1*	same as 0 entry
		100 *1*	same as 0 entry
	PL000001 \$1.00	DEPT02 *1*	same as DEPT2 entry
		1.10	

(X2/Z2)



(REG)

Key entry	R/J	Display	Comment
DEPT 1	DEPT01 \$1.00	DEPT01 *1*	
AUTO 2		1.10	
		1 *1*	same as 1 entry
		10 *1*	same as 0 entry
		100 *1*	same as 0 entry
	***TOTAL\$1.00	CHANGE *1*	same as TL entry
	CASH \$1.00	0.00	
	CHANGE \$0.00		

[JOB#2990] = For ER-A670 S
TERMAL PRINTER PROGRAMMING


X: Auto cutter

YY: Selecting of light and shade

No/Yes 1/0

00 to 99

00 = 65% for standard

50 = 100% standard

99 = 135% for standard

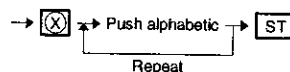
MRS = 050

3. Character assignment method

~ Using alphabetic assignment method ~

The ER-A670/A650 has two kinds of method at character assignment.

One is to use alphabetic assigned key and other one is to use ten keys.



Programming key layout (ER-A670/A650)

① Normal character

↑ RECEIPT	↑ JOURNAL		â	ê	è	é	î	ì	í	ô	ò	ó	û	ù	ú
Γ	Π		à	∞	Æ	Ø	Å	Ñ	ç	□	Pt	£	[	]	
(SLIP)	Σ		á	∞	!	!!	←	→	◀	▶	↑	↓	-	¿	?
Θ	Υ		{	}	''	@	••	'	'	<	>	^	=	+	(BACK SPACE)
Λ	Φ	1/2	(DC)	i	!	"	§	\$	%	¢	&	(	)	*	#
Ξ	Ψ	⊗	•	CL	1	2	3	4	5	6	7	8	9	0	β
1	Ω	7	8	9	Q	W	E	R	T	Y	U	I	O	P	Ü
2	Δ	4	5	6	A	S	D	F	G	H	J	K	L	Ö	Ä
3	œ	1	2	3		Z	X	C	V	B	N	M	;	:	/
4		0	00	000	ST	TL	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(SHIFT)	,	.	-

② Small character

*: This character is small character.

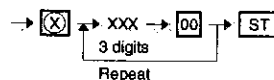
When the 'SHIFT' key is depressed, this small character be preset.

↑ RECEIPT	↑ JOURNAL		â	ê	è	é	î	ì	í	ô	ò	ó	û	ù	ú
Γ	Π		à	∞	æ*	φ*	â *	ñ *	ç	□	Pt	£	[	]	
(SLIP)	Σ		á	∞	!	!!	←	→	◀	▶	↑	↓	-	¿	?
Θ	Υ		{	}	''	@	••	'	'	<	>	^	=	+	(BACK SPACE)
Λ	Φ	1/2	(DC)	i	!	"	§	\$	%	¢	&	(	)	*	#
Ξ	Ψ	⊗	•	CL	1	2	3	4	5	6	7	8	9	0	β
1	Ω	7	8	9	q*	w*	e*	r*	t*	y*	u*	i*	o*	p*	ü*
2	Δ	4	5	6	a*	s*	d*	f*	g*	h*	j*	k*	l*	ö*	ä*
3	œ	1	2	3		z*	x*	c*	v*	b*	n*	m*	;	:	/
4		0	00	000		ST	TL	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(SHIFT)	,	.	-

• The symbols the area XXXX is not used for character keys.

• (DC): double size character code

~ Using ten key ~



Note: 00 key is used to enter each 3 digit alpha code.

CODE TABLE FOR ALPHA DESCRIPTOR PROGRAMMING

CODE	CHARACTER	CODE	CHARACTER	CODE	CHARACTER	CODE	CHARACTER
001	á	051	3	101	e	151	À
002	â	052	4	102	f	152	Á
003	ê	053	5	103	g	153	É
004	î	054	6	104	h	154	È
005	ì	055	7	105	i	155	Pt
006	lì	056	8	106	j	156	ì
007	ó	057	9	107	k	157	Ñ
008	ô	058	:	108	l	158	Ò
009	û	059	;	109	m	159	£
010	ú	060	<	110	n	160	¥
011	œ	061	=	111	o	161	°
012	ü	062	>	112	p	162	┌
013	ù	063	?	113	q	163	┐
014	ö	064	@	114	r	164	,
015	ó	065	A	115	s	165	•
016	^	066	B	116	t	166	
017	Ψ	067	C	117	u	167	
018	ƒ	068	D	118	v	168	
019	••	069	E	119	w	169	
020	Ω	070	F	120	x	170	
021	Δ	071	G	121	y	171	
022	Θ	072	H	122	z	172	
023	Ξ	073	I	123	{	173	
024	π	074	J	124		174	
025	Σ	075	K	125	}	175	
026	Υ	076	L	126	β	176	Б
027	Φ	077	M	127	¢	177	À
028	Ü	078	N	128	!!	178	í
029	Ù	079	O	129	1		
030	Ö	080	P	130	2	192	Ç
031	Ó	081	Q	131	3	193	ı
032	SPACE	082	R	132	4	194	G
033	!	083	S	133	½	195	Ş
034	"	084	T	134	Fr	224	x
035	#	085	U	135	←	225	Š
036	\$	086	V	136	→	226	ø
037	%	087	W	137	∞	227	^
038	&	088	X	138	∞	228	↑
039	'	089	Y	139	◀	229	]
040	(	090	Z	140	▶	230	[
041	)	091	Ä	141	F	231	
042	*	092	Ö	142	T	232	ä
043	+	093	Ü	143	↓	233	ö
044	,	094	^	144	Ç	234	ü
045	-	095	_	145	°	235	æ
046	.	096	'	146	ı	236	à
047	/	097	a	147	Û	237	É
048	0	098	b	148	à	238	ñ
049	1	099	c	149	Æ	239	ˉ
050	2	100	d	150	Ø	253	DC

DC: DOUBLE CODE

Fig. 7-2

CHAPTER 3. OP X/Z, X1/Z1, X2/Z2 MODE

The following categories of reports can be printed by the ECR.

- 1) OP X/Z reports (individual clerk reports)
- 2) X1/Z1 reports (Daily sales total X and Z reports)
- 3) X2/Z2 reports (Periodic total X and Z reports)

To print reports, use the following key entry sequence



X/Z MODE JOB# LIST

REPORT NAME	MODE *1								
	OP X/Z		X1/Z1		X2/Z2		*3 DATA FOR		
	X	Z	X1	Z1	X2	Z2	JOB#	READING	NOTE
GENERAL			○	○	○	○	00	---	
DEPT/GROUP			○		○		10	---	
IND. GROUP			○		○		12	GROUP No	
GROUP TOTAL			○		○		13	---	
PLU BY RANGE			○	○	○	○	20	PLU CODE	*2
PLU BY DEPT			○		○		21	DPT CODE	
PLU STOCK			○				24	PLU CODE	*2
TRANSACTION			○		○		30	---	
TL-ID			○				31	---	
COMMISSION SALES			○		○		32	---	
TAX			○		○		33	---	
CHIEF			○				34		
ALL CLERK			○	○	○	○	40	---	
IND. CLERK	○	○	○	○	○	○	41	---	
TIMEIN CLERK			○				42	---	
HOURLY(ALL)			○	○			60		
(RANGE)			○				60	*2	
DAILY NET					○	○	70		
GLU			○	○			80	*2	
GLU BY CLERK			○	○			81		
BALANCE			○		○		01		
STACKED REP			○	○	○	○	90-91		

- *1 X1: Daily X report Z1: Daily Z report
 X2: Periodic X report X2: Periodic Z report

- *2 The time interval range, or PLU code range can be specified by entering the start and end numbers according to the following procedure. When specifying a single time interval, PLU code, the start number has only to be entered.

[XXXXXX] → [ⓧ] → [XXXXXX]
 Start no. End no.

- *3 When 2 is entered in the third digit of a job code, periodic reports are printed.

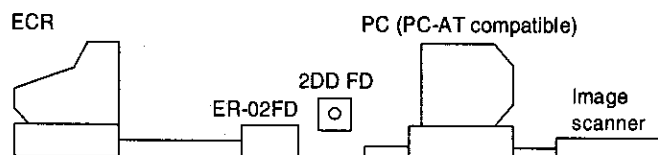
Example: Daily general report; job code 100
 Periodic general report; job code 200

- An individual report is printed on the receipt and journal when the TL key is pressed.
- Pressing the decimal point key just after the entry of a job code clears the corresponding data in the ECR. (Z report)
 (When printing those reports for which no Z reports can be taken, the decimal point key cannot be pressed after the entry of a job code.)
- When the decimal point key is not pressed after the entry of a job code, the corresponding data is held in the ECR. (X report)

CHAPTER 4. LOGO DATA CREATION PROCEDURE (ER-A670 S)

1. Outline

(System configuration)



Logo data is created on the PC/AT or a PC/AT compatible machine using a commercially available image creation software tool (e.g., "Paint Brush" supplied as accessory to "Windows") or image scanning software tool.

Through the use of a data conversion software tool supplied by SHARP, the created data is converted into a format that can be read by the external floppy disk drive unit ER-01FD or ER-02FD.

The converted data is automatically stored on a 2DD floppy disk. At this time, the floppy disk format selection is possible between "MS-DOS format" and "CPM format."

This data-stored floppy disk is set in the ER-01FD or ER-02FD to transmit the logo data to the ECR.

The ECR receives and stores the logo data, which will be printed out on receipt paper as logos.

In the inline system, the logo data can be downloaded from the master machine onto satellite machine(s). In the online system, the logo data can be downloaded from the host computer onto the ECR. At this time, the data format must be converted to fit the online system using the aforementioned data conversion software tool because a different data format from that for the ER-01FD ER-02FD is required.

For details concerning the downloading operation in the inline and online system, refer to the relevant specifications.

2. Conditions

- 1) The logo data file format on the PC shall be limited to the PCX file format only which is mentioned below.
- 2) Sharp shall not supply any software tool for creating the PCX file format logo data.
- 3) Sharp shall manufacture and supply software tool which can convert the PCX file into the data format for the ER-01FD or ER-02FD and that for the online system.
Only the PCX file that meets the following requirements can be format-converted.

(PCX file)

- ① Data with 256 pixels (W) and 136 pixels (L)
- ② Monochrome data
- ③ Data sample (Refer to the attached material.)
- ④ File name is fixed at the following:
"A670LOGO.PCX"

3. Data conversion software tool (program name)

"PCX_CONV.EXE"

(Execution environment conditions)

- 1) A PC/AT or PC/AT compatible machine is used.
- 2) The above machine is equipped with a hard disk drive unit and floppy disk drive A.
- 3) The tool is executed on the hard disk.

(Outline of function)

The PCX file mentioned in 2. is converted into the following format files.

- 1) PCX file (hard disk) → MS-DOS format file for the ER-02FD (3.5-inch 2DD floppy disk)
- 2) PCX file (hard disk) → CPM format file for the ER-02FD/01FD (3.5-inch 2DD floppy disk)
- 3) PCX file (hard disk) → File for online communications (ASCII file) (hard disk)

(Operation procedure)

- (1) PCX file (hard disk) → MS-DOS format file for the ER-02FD (2DD floppy disk)
 - 1) Insert into disk drive A the 3.5-inch 2DD floppy disk initialized into the MS-DOS format by using the ER-02FD.
 - 2) Activate "PCX_CONV." (See Example 1.)
 - 3) A message appears asking you to select a conversion format; input "1" which represents the MS-DOS format. (See Example 1.)
 - 4) With the message "COMPLETED" appearing, the conversion is completed. (See Example 1)
 - 5) Set the floppy disk in the ER-02FD.
 - 6) Transmit the data to the ECR. (See Example 2.)

(Example 1) !:Carriage return

>PCX CONV!

PCX_CONV v1.0 Feb. '93 by SHARP

PCX FILE CONVERSION

- 1: PCX → MS-DOS FILE FOR 01/02FD
- 2: PCX → CPM FILE FOR 01FD
- 3: PCX → ASCII FILE FOR ONLINE

When you select "1" or "2",

Insert diskette in drive: A

Enter menu number: 1

COMPLETED

>

(Example 2)

<ECR side>

- 1) Set the machine to the SVR mode.
- 2) Input 998 → ☐ → ☒ → ☐ (The machine stands by for data reception.)

<ER-02FD>

- 3) Press the [SEND] key. (Data transmission starts.)

<ECR side>

- 4) If "RECEIVE OK" is printed, the data reception is completed.

* If an error occurs during the operation, start the operation all over again from step 1).

- (2) PCX file (hard disk) → CPM format file for the ER-02FD/01FD (2DD floppy disk)
 - 1) Insert into the disk drive A the 3.5-inch 2DD floppy disk initialized into the CPM format by using the ER-02FD or ER-01FD.
 - 2) Activate "PCX_CNV." (See Example 1.)
 - 3) A message appears asking you to choose a conversion format; input "2" which represents the CPM format. (See Example 1.)
 - 4) With the message "COMPLETED" appearing, the conversion is completed. (See Example 1.)
 - 5) Set the floppy disk in the ER-02FD or ER-01FD.
 - 6) Transmit the data to the ECR. (See Example 2.)
- (3) PCX file (hard disk) → File for online communications (ASCII file) (hard disk)
 - 1) Activate "PCX_CNV." (See Example 1.)
 - 2) A message appears asking you to choose a conversion format; input "3" which represents the format for online communications. (See Example 1.)
 - 3) With the message "COMPLETED" appearing, the conversion is completed. (See Example 1.)
 - 4) The following file is created on the hard disk.
(File name)
"LOGO. DAT" <File name fixed>
 - 5) Refer to the Online Specification for the downloading operation in the online system.

(PCX file data sample)

- Attached material -

The following is a PCX file data sample read and printed out using a software tool called "READPCX."

READPCX v1.0 Nov '89 by Troy Stephens Public Domain Created using Turbo C v2.0, Copyright (c) Borland 1987, 1988.

Filename: A670LOGO.PCX
Manufacturer: ZSoft
Version: 3.0
Encoding: . PCX Run-Length Encoding
Bits Per Pixel: 1
Window: (0, 0) - (255, 135)
Resolution of Creating Device (horiz x vert): 640 x 480
Number of Color Planes: 1
Bytes Per Line: 32
Palette Type: [unknown]
Image Dimensions: 256 x 136 pixels